

HTGEO86	703733	5940	57 - 272	15692	Arg-1 to Ser-11, Asp-21 to Leu-29.	S0218: 2		
HTGEO94	723097	5941	422 - 622	15693		S0218: 1 and H0063: 1.		
HTGEP20	799683	5942	13 - 276	15694	Ser-3 to Ser-10, Pro-37 to Thr-44, Phe-67 to Gln-74.	H0264: 2 and S0218: 1.		
HTGEP92	789681	5943	44 - 352	15695		S0218: 1 and S0428: 1.		
HTGEQ11	967047	5944	3 - 311	15696	Arg-1 to Gly-8, Pro-26 to Gly-34.	AR089: 1, AR061: 1		
HTGEQ34	703443	5945	27 - 161	15697	Lys-16 to Asn-23.	S0218: 2		
HTGEQ40	711181	5946	1 - 69	15698		S0218: 2		
HTGEQ61	741828	5947	39 - 218	15699	Lys-28 to Asn-35.	S0218: 1, H0444: 1 and H0422: 1.		
HTGEQ68	753031	5948	178 - 330	15700	Val-23 to Pro-31.	S0218: 2		
HTGER72	683469	5949	96 - 215	15701		S0218: 1 and S0053: 1.		
HTGET46	719048	5950	1 - 270	15702	Gly-1 to Cys-6, Leu-18 to Lys-26, Glu-33 to Arg-43, Ile-63 to Ile-82.	S0218: 2 and H0580: 1.		
HTGET82	778928	5951	158 - 310	15703		S0218: 1 and H0521: 1.		
HTGEU06	935470	5952	3 - 128	15704		S0114: 1 and S0218: 1.		
HTGFC20	668924	5953	2 - 232	15705	Gln-8 to Asn-17, Asp-24 to Gln-30, Arg-41 to Cys-48, Ala-71 to Phe-77.	S0218: 1 and H0255: 1.		
HTGFC70	757193	5954	206 - 364	15706		S0218: 2		
HTGFK43	669222	5955	3 - 323	15707	Asp-5 to Thr-13.	S0218: 2 and L0758: 1.		
HTGFN46	974106	5956	313 - 501	15708	Leu-1 to Cys-7.	S0218: 4		
HTGFO51	866957	5957	2 - 166	15709	Ser-1 to Cys-8.	S0218: 2 and S0114: 1.		
HTGFO75	767032	5958	53 - 280	15710	His-1 to Lys-6, Val-45 to Tyr-54.	H0265: 1 and S0218: 1.		
HTGFP07	952555	5959	147 - 341	15711	Val-9 to Val-15, Trp-44 to Arg-54.	S0218: 2, L0369: 1 and L0376: 1.		
HTGFP49	722626	5960	90 - 239	15712	Met-27 to Ser-33.	S0218: 2		
HTGFP59	738974	5961	31 - 135	15713	Tyr-10 to Gly-17.	S0218: 2		
HTGFP62	742908	5962	32 - 223	15714		S0218: 2		

HTGFR80	810302	5963	27 - 257	15715	Leu-70 to Ser-76.	S0134: 1 and S0218: 1.	
HTGFW29	690276	5964	1 - 249	15716	Gly-20 to Pro-27.	S0218: 1 and H0264: 1.	
HTGFW63	744678	5965	167 - 556	15717		L0747: 2, S0218: 1 and H0423: 1.	
HTGFX16	656777	5966	3 - 329	15718	Pro-33 to Ala-46, Asn-54 to Val-69, Pro-73 to Ser-78, Glu-93 to Pro-101.	S0218: 1 and H0581: 1.	
HTGFX82	779055	5967	75 - 278	15719	Asn-34 to Lys-40.	S0218: 2	
HTGFZ03	923443	5968	3 - 275	15720		AR089: 1, AR061: 1 S0218: 1 and H0485: 1.	
HTGFZ35	707730	5969	13 - 285	15721	Ser-60 to Leu-66.	S0218: 2	
HTGFZ58	735683	5970	59 - 190	15722		H0265: 1 and S0218: 1.	
HTGGL08	958583	5971	2 - 232	15723		S0218: 2	
HTGGL11	966328	5972	3 - 158	15724		S0218: 2	
HTGGL23	974590	5973	3 - 449	15725		S0218: 2	
HTGGL32	698714	5974	114 - 266	15726	Asp-1 to Ser-7, Lys-23 to Ile-28.	S0218: 2	
HTGGL43	714932	5975	36 - 218	15727	Leu-11 to Gln-16.	S0218: 2	
HTGGL79	774657	5976	2 - 103	15728	Thr-1 to Asn-10.	S0218: 2	
HTGGM20	669083	5977	7 - 129	15729	Arg-20 to Gly-26.	S0218: 1, S0212: 1, H0318: 1 and L0648: 1.	
HTGGN13	869239	5978	2 - 235	15730	Pro-10 to Ala-16.	S0218: 2 and H0556: 1.	
HTGGN92	927051	5979	3 - 197	15731		H0556: 1 and S0218: 1.	
HTHAA47	503638	5980	59 - 313	15732		H0222: 1 and H0062: 1.	
HTHBA07	954426	5981	27 - 203	15733		H0063: 2 and L0657: 1.	
	954427	9598	265 - 62	19350			
HTHBA18	502818	5982	3 - 128	15734		H0063: 2	
HTHBA68	915236	5983	3 - 392	15735		H0556: 1 and H0063: 1.	
HTHBC31	578568	5984	259 - 468	15736	Tyr-10 to Thr-16.	H0063: 1 and H0423: 1.	
HTHBC37	502935	5985	101 - 256	15737	Thr-6 to Leu-11.	H0063: 2	
HTHBG67	964562	5986	172 - 318	15738		H0220: 1, H0486: 1, H0063: 1 and H0625: 1.	
HTHBK65	526716	5987	1 - 132	15739		H0063: 2	
HTHBL65	921965	5988	1 - 366	15740	Glu-6 to Thr-17,	H0402: 1 and H0063: 1.	



HTHBO09	531115	5989	3 - 140	15741	Tyr-23 to Arg-38.	S0114: 1 and H0063: 1.	
HTHBQ94	529671	5990	85 - 243	15742	Lys-11 to Glu-19.	H0063: 1 and H0264: 1.	
HTHBU75	557957	5991	2 - 133	15743	Pro-23 to Glu-35.	H0265: 1 and H0063: 1.	
HTHBW69	757741	5992	85 - 246	15744		H0318: 1 and H0063: 1.	
HTHBY64	712474	5993	320 - 493	15745	Ser-25 to Tyr-30.	H0063: 2 and S0052: 2.	
HTHCA17	572407	5994	107 - 298	15746	Lys-19 to Leu-24.	H0063: 1 and H0264: 1.	
HTHCA75	712649	5995	208 - 477	15747		H0063: 1, H0272: 1 and L0749: 1.	
HTHCB68	660309	5996	3 - 359	15748	His-1 to Ser-7, Thr-33 to Gly-40.	H0063: 2	2q37.2
HTHCB83	578858	5997	109 - 321	15749	Cys-24 to Asn-33, Ala-53 to Ser-61.	H0063: 2	
HTHCC54	578877	5998	131 - 340	15750	His-8 to Asp-13, Arg-21 to Cys-29.	H0063: 2	
HTHCD17	664274	5999	62 - 331	15751	Asp-1 to Glu-6.	H0063: 2	
HTHCD91	973272	6000	407 - 535	15752		H0063: 3	
HTHCG11	967275	6001	117 - 245	15753	Tyr-29 to Ile-37.	H0063: 1 and H0521: 1.	
HTHCG86	578843	6002	1 - 165	15754	Gly-1 to Lys-12, Arg-19 to Ser-27.	H0063: 1 and H0543: 1.	
HTHCH22	630239	6003	293 - 547	15755		H0305: 1, H0589: 1, H0063: 1 and L0591: 1.	
HTHCJ42	578875	6004	82 - 291	15756		H0063: 2	
HTHCK38	579080	6005	3 - 275	15757		H0063: 1 and H0264: 1.	
HTHCK42	870355	6006	239 - 376	15758		H0063: 2	
HTHCK91	922873	6007	1 - 141	15759		H0063: 1 and S0426: 1.	
HTHCM08	959719	6008	20 - 268	15760	Lys-19 to Asn-27.	H0063: 2	
HTHCM19	842036	6009	199 - 375	15761	Gly-24 to Arg-29.	H0305: 3, H0581: 1 and H0063: 1.	
HTHCM39	578831	6010	147 - 350	15762	Asn-28 to Phe-43.	H0063: 2	
HTHCN38	578826	6011	183 - 371	15763	Pro-1 to Ser-9.	H0063: 2	
HTHCO28	705888	6012	1 - 231	15764		S0114: 1 and H0063: 1.	
HTHCO92	578757	6013	1 - 84	15765		L0794: 3, L0766: 2, H0581: 1, H0063: 1, L0792: 1, L0438: 1, L0439: 1 and	

HTHCQ31	926330	6014	391 - 624	15766	Leu-48 to Arg-60.	L0779: 1. H0063: 1, L0766: 1, L0748: 1 and H0543: 1.		
HTHCQ63	959994	6015	224 - 361	15767		S0116: 2 and H0063: 1. H0063: 2		
HTHCR16	578722	6016	3 - 296	15768	His-1 to Pro-14, Arg-19 to Val-25, Cys-29 to His-42, Pro-62 to Arg-68, Cys-83 to Glu-92.			
HTHCT64	856477	6017	44 - 286	15769	Glu-1 to Ala-11.	H0063: 1 and H0445: 1.		
HTHCU43	578849	6018	199 - 297	15770		H0063: 2		
HTHCU85	578851	6019	159 - 314	15771	Lys-35 to Gly-42.	H0063: 2		
HTHCV21	671098	6020	2 - 211	15772	Asn-45 to Ser-50.	S0134: 1, L0717: 1, H0063: 1 and L0749: 1.	104770, 107670, 110700, 145001, 146760, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 601863, 602491	
HTHCV22	419714	6021	2 - 205	15773	Gly-48 to Lys-55.	H0063: 2		
HTHCV59	937393	6022	45 - 374	15774	Leu-71 to Gly-78.	AR089: 17, AR061: 10 H0318: 1 and H0063: 1. H0580: 1 and H0063: 1. H0063: 2 H0063: 2		
HTHCW35	707732	6023	55 - 147	15775	Ile-16 to His-22.			
HTHCW45	578823	6024	3 - 152	15776				
HTHCW83	578828	6025	73 - 252	15777	Leu-1 to Lys-8, Thr-20 to Asn-26.			
HTHCX84	578874	6026	29 - 280	15778		H0063: 2		
HTHCY12	971165	6027	222 - 515	15779	Pro-22 to Pro-32, Arg-40 to Lys-50, Ala-69 to Gly-74.	L0766: 3, H0063: 2, L0769: 1, L0779: 1 and L0759: 1.		
HTHCZ96	578876	6028	94 - 306	15780	Arg-1 to Thr-7, Phe-27 to Ala-47.	H0063: 2		
HTHDD40	707065	6029*	2 - 367	15781	Arg-18 to Val-37.	H0063: 2		
HTHDE26	869483	6030	160 - 546	15782	Pro-52 to Leu-58.	H0063: 1, H0576: 1 and		

HTHDE44	791641	6031	286 - 363	15783			H0445: 1.		
HTHDE91	967215	6032	164 - 307	15784			H0063: 1 and S0428: 1.		
HTHDF38	870339	6033	1 - 186	15785		Asn-10 to Leu-15, Phe-35 to Leu-42, Ser-56 to Arg-62.	H0063: 1 and H0423: 1.		
HTHDM24	574675	6034	84 - 242	15786		Val-4 to His-15.	H0637: 1, H0063: 1, L0598: 1, H0542: 1 and H0423: 1.		
HTHDM34	490926	6035	78 - 1	15787		Lys-1 to Thr-9, Leu-17 to Arg-26.	H0250: 1, H0271: 1 and H0063: 1.		
HTHDI31	973304	9599	332 - 457	19351			H0063: 5		
HTHDI43	959718	6036	173 - 304	15788			H0063: 2		
HTHDI43	870335	6037	1 - 243	15789		Ser-40 to Asp-46, Val-48 to Lys-63.	H0063: 2		
HTHDM25	578878	6038	145 - 333	15790			H0063: 2 and L0519: 1.		
HTHDM65	579199	6039	145 - 252	15791			H0063: 2		
HTHDM69	578834	6040	213 - 383	15792		Asn-3 to Gly-11.	H0063: 2		
HTHDP70	578882	6041	134 - 268	15793			H0063: 2		
HTHDQ85	966858	6042	33 - 227	15794		Lys-37 to Gly-43, Phe-57 to Thr-65.	H0063: 1 and H0272: 1.		
HTHDR09	579076	6043	2 - 220	15795		Arg-1 to Gly-16, Ala-28 to Ala-34, Ser-40 to Lys-53.	H0063: 2		
HTHDR24	578848	6044	2 - 208	15796		Ala-1 to Lys-13, Leu-19 to Ile-24, Tyr-26 to Ile-31, Pro-40 to Lys-46.	H0063: 2		
HTHDU80	764136	6045	400 - 558	15797		Leu-19 to Arg-31.	H0580: 1 and H0063: 1.		
HTJAB35	491273	6046	519 - 313	15798			AR089: 14, AR061: 3 H0063: 2, H0487: 1 and H0445: 1.		
	853995	9600	358 - 185	19352					
	880424	9601	239 - 457	19353					
HTJAB39	705432	6047	111 - 260	15799			L0539: 1, H0580: 1 and H0487: 1.		
HTJAD26	681865	6048	112 - 348	15800		Thr-59 to His-67.	H0487: 1 and S0002: 1.		

HTJAE28	703321	6049	113 - 292	15801		H0487: 1 and H0423: 1.		
HTJAE42	668339	6050	245 - 379	15802		H0583: 1, H0487: 1, L0805: 1 and L0740: 1.		
HTJMB71	760226	6051	448 - 200	15803		H0265: 1, H0402: 1, H0488: 1 and H0522: 1.		
	760247	9602	448 - 200	19354				
HTJMD95	924240	6052	222 - 368	15804		H0488: 2		
HTJMH80	774407	6053	115 - 393	15805	Glu-1 to Tyr-7.	H0488: 3		
HTJMQ69	754605	6054	104 - 310	15806		H0591: 2 and H0488: 1.		
HTJMR65	729039	6055	1 - 120	15807	Gly-1 to Gly-9, Pro-16 to Leu-25.	H0488: 2		
HTJMT23	948518	6056	2 - 241	15808		H0488: 2		
HTJMT75	766883	6057	253 - 447	15809		H0488: 2 and L0749: 1.		
HTJMU34	870316	6058	2 - 211	15810		H0488: 2		
HTJMU77	771677	6059	2 - 283	15811	Glu-17 to Ser-26, Lys-61 to Lys-70, Phe-86 to Cys-93.	H0488: 1, L0762: 1, H0543: 1 and H0422: 1.		
HTJMU87	870315	6060	1 - 300	15812	Glu-23 to Tyr-28.	H0069: 1 and H0488: 1.		
HTJMV80	775766	6061	29 - 220	15813	Thr-17 to Ser-24, Glu-28 to Lys-38, Ser-43 to Val-49, Ser-56 to Lys-64.	H0488: 2 and L0605: 1.		
HTJMW42	713132	6062	276 - 461	15814		H0271: 1 and H0488: 1.		
HTJMX71	759910	6063	67 - 255	15815	Tyr-54 to Gln-59.	S0212: 1 and H0488: 1.		
HTJMZ90	787655	6064	7 - 102	15816		H0488: 2		
HTJNB83	766881	6065	1 - 138	15817		H0488: 2		
HTJNC42	713142	6066	61 - 222	15818		S0212: 1 and H0488: 1.	8	
HTJNC53	793328	6067	78 - 332	15819		H0488: 2		
HTJND12	870311	6068	196 - 417	15820		H0488: 2		
HTJNI42	924726	6069	2 - 373	15821	Thr-1 to His-6, Phe-8 to Pro-24, Leu-69 to Ser-75.	H0488: 1 and S0002: 1.		
HTJNK36	924939	6070	172 - 441	15822	Arg-19 to Gly-28.	H0271: 2, H0488: 1, L0438: 1 and L0439: 1.		
HTJNM52	795110	6071	7 - 306	15823	Pro-24 to Ala-29.	T0002: 1, H0488: 1 and		

HTJNQ25	771941	6072	2 - 205	15824	Arg-14 to His-23.	L0602: 1.	
HTJNR19	781702	6073	3 - 161	15825		H0318: 1 and H0488: 1.	
HTJNS23	870336	6074	2 - 535	15826	Ser-8 to Lys-15, Pro-30 to Asp-36.	H0265: 1 and H0488: 1. H0063: 1 and H0488: 1.	
HTJNV55	931039	6075	2 - 244	15827		H0581: 1 and H0488: 1.	
HTOAA48	870027	6076	2 - 265	15828		H0264: 2	
HTOAF15	866201	6077	2 - 610	15829	Tyr-51 to Glu-57, Ser-164 to Pro-171, Pro-185 to Lys-198.	AR051: 50, AR050: 37, AR054: 35 H0179: 2, L0519: 2, H0265: 1, H0264: 1, L0541: 1, S0053: 1 and S0216: 1.	
HTOAI35	799686	6078	53 - 121	15830		H0264: 3	
HTOAI69	529555	6079	2 - 97	15831	Gln-3 to Asn-8, Glu-22 to Arg-27.	H0264: 2	
HTOAI93	751902	6080	47 - 235	15832		H0264: 2	
HTOAK34	966800	6081	918 - 1196	15833	Ser-67 to Trp-77.	AR089: 1, AR061: 1 L0766: 2, H0264: 1 and H0521: 1.	
HTOAK36	921745	6082	1 - 204	15834	Tyr-31 to Arg-40.	H0264: 2	
HTOAO19	954183	6083	81 - 164	15835		H0264: 2	
HTOAO75	530192	6084	23 - 214	15836	Asn-6 to Phe-16.	H0264: 2	
HTOAT80	530186	6085	3 - 284	15837		H0264: 2	
HTOAU62	738214	6086	3 - 398	15838		H0416: 1 and H0264: 1.	
HTOAU94	620370	6087	10 - 195	15839		H0264: 1, S0002: 1 and H0521: 1.	
HTOAW19	530114	6088	85 - 180	15840	Leu-14 to Glu-24.	H0264: 2	
HTOAW26	530116	6089	2 - 61	15841		H0264: 2	
HTOAW37	507322	6090	177 - 392	15842		H0264: 2 and L0439: 1.	
HTOBA06	960618	6091	3 - 395	15843	Gly-1 to Tyr-9, His-37 to Pro-42, Lys-125 to Pro-131.	H0581: 1, H0272: 1 and S0428: 1.	
HTOBA10	839919	6092	1 - 168	15844	His-40 to Arg-52.	H0272: 1 and H0445: 1.	
HTOBE15	715538	6093	12 - 176	15845	Ser-6 to His-12, Lys-31 to Ser-36.	H0264: 1 and H0272: 1.	

HTOBF03	925407	6094	57 - 146	15846			H0272: 2		
HTOBF07	954184	6095	10 - 141	15847	Pro-14 to Gly-35.		H0272: 2		
HTOBF35	530325	6096	6 - 314	15848	Lys-10 to Gly-16.		H0272: 2		
HTOBF27	682263	6097	2 - 250	15849	Arg-16 to Thr-22.		H0272: 1, S0002: 1 and L0748: 1.		
HTOBF70	740977	6098	27 - 146	15850	Ser-3 to Pro-9.		H0272: 1 and H0488: 1.		
HTOBF11	966734	6099	32 - 169	15851			H0063: 1 and H0272: 1.		
	966776	9603	356 - 192	19355					
HTOCF92	530009	6100	199 - 411	15852	Arg-33 to Lys-38, Pro-60 to Lys-67.		H0272: 2 and L0748: 1.		
HTOCK26	523838	6101	2 - 187	15853	Ser-29 to Gln-34.		H0272: 2 and L0791: 1.		
HTODB23	530149	6102	2 - 142	15854			H0264: 2		
HTODC33	921426	6103	1 - 549	15855			L0766: 6, L0754: 4, L0779: 4, H0264: 2, L0747: 2 and L0777: 1.		
HTODE04	927826	6104	3 - 209	15856			H0264: 3		
HTODE78	530397	6105	20 - 160	15857	Asn-1 to Glu-7, Val-40 to Glu-47.		H0264: 2		
HTODG07	880911	6106	90 - 215	15858	Gly-1 to Ser-7.		H0264: 2		
HTODG10	968505	6107	38 - 157	15859	Glu-1 to Glu-10.		H0264: 2		
HTODG16	909952	6108	1 - 492	15860	Arg-80 to Lys-88, Ser-94 to Arg-103.		AR089: 22, AR061: 6 H0264: 2 and L0766: 1.		
HTODG47	799691	6109	48 - 221	15861	Pro-14 to Ala-19.		H0264: 3 and L0361: 1.		
HTODG55	852560	6110	3 - 194	15862	His-2 to Pro-12.		H0264: 2 and H0521: 1.		
HTODG58	869998	6111	3 - 122	15863	Ile-11 to Tyr-18, Met-29 to Gln-35.		H0264: 2		
HTODG60	558007	6112	19 - 216	15864	Thr-23 to Asn-34, Gln-53 to Phe-58.		H0264: 2		
HTODG83	676384	6113	1 - 135	15865	Arg-27 to Val-33.		H0264: 2		
HTODH04	925386	6114	107 - 286	15866	Pro-31 to Lys-36.		H0264: 2		
HTODH37	708892	6115	70 - 234	15867	Ser-27 to His-34.		S0114: 1 and H0264: 1.		
HTODL81	507295	6116	47 - 178	15868	Val-3 to Gln-8.		H0264: 2		
HTODL85	799701	6117	171 - 302	15869	Phe-38 to Leu-44.		H0264: 4 and H0179: 1.		
HTODM58	811293	6118	3 - 215	15870	Ser-1 to Asn-12.		H0264: 3.		
HTODN21	869967	6119	38 - 163	15871			H0264: 2		

HTODN27	684343	6120	183 - 326	15872			H0581: 1, H0264: 1 and H0521: 1.		
HTODN68	527862	6121	4 - 147	15873	Asp-35 to Ser-40.		H0179: 1 and H0264: 1.	Yq11	400003, 415000
HTOEA06	960551	6122	86 - 211	15874	Lys-8 to Phe-14.		H0264: 3		
HTOEA12	967754	6123	166 - 357	15875	Ala-37 to Met-44.		H0264: 2		
HTOEA25	523546	6124	40 - 96	15876	Thr-9 to Asn-14.		H0264: 2		
HTOEC81	529834	6125	48 - 167	15877	Arg-1 to Thr-18.		H0264: 2		
HTOEC94	529839	6126	213 - 302	15878	Ser-25 to Arg-30.		H0264: 2		
HTOED10	839798	6127	61 - 318	15879	Gln-19 to Leu-24, Ser-28 to Gly-35.		H0069: 1 and H0264: 1.		
HTOED61	742158	6128	214 - 339	15880			S0142: 2 and H0264: 1.		
HTOEG69	967562	6129	3 - 149	15881			H0264: 2		
HTOET10	968492	6130	2 - 109	15882			H0264: 2		
HTOEV37	774641	6131	31 - 141	15883	Val-21 to Lys-33.		S0114: 1 and H0264: 1.		
HTOEV40	529822	6132	286 - 414	15884			H0264: 2		
HTOEV50	529820	6133	77 - 220	15885			H0264: 2		
HTOEV72	659494	6134	136 - 255	15886			H0264: 2		
HTOFA04	845519	6135	1 - 129	15887			H0087: 1 and H0264: 1.		
	869987	9604	158 - 289	19356					
	927327	9605	458 - 129	19357	Ala-1 to Lys-9, Lys-22 to Lys-28, Lys-37 to Asp-43.				
HTOFB55	723256	6136	110 - 256	15888			H0264: 2		
HTOFB73	742153	6137	3 - 164	15889			H0264: 2		
HTOFC70	811291	6138	65 - 355	15890			H0264: 2		
HTOFD10	968469	6139	2 - 133	15891	Ile-20 to Asp-32.		H0264: 2		
HTOFD31	529674	6140	2 - 76	15892			S0114: 1 and H0264: 1.		
HTOFD57	529673	6141	101 - 304	15893			H0264: 2		
HTOFO05	932662	6142	3 - 98	15894	Pro-5 to Leu-16.		H0083: 1 and H0264: 1.		
HTOFO41	529617	6143	34 - 111	15895	Tyr-3 to Leu-11, Arg-14 to Glu-19.		H0264: 2		
HTOFQ48	720880	6144	125 - 316	15896	Thr-12 to Asn-21, Thr-39 to Gln-45.		H0318: 1 and H0264: 1.		
HTOFT22	939903	6145	1870 - 2187	15897	Thr-11 to Gly-24, Pro-27 to Asn-37.		AR061: 6, AR089: 2 H0264: 2		

						Gln-44 to Glu-49, Arg-69 to Arg-84.			
	963302	9606	750 - 905	19358					
HTOFT34	527144	6146	106 - 270	15898					
							AR089: 8, AR061: 5 H0264: 2 and L0367: 1.		
HTOGA06	960554	6147	1 - 249	15899			H0264: 2		
HTOGA25	529959	6148	37 - 156	15900			H0264: 2		
HTOGA35	751989	6149	185 - 337	15901		Ala-11 to Thr-17.	L0750: 3, L0551: 2, L0748: 2, H0486: 1, L0455: 1, H0264: 1, S0002: 1, L0764: 1, L0791: 1 and L0740: 1.		
							H0264: 1 and H0272: 1.		
HTOGA51	530331	6150	6 - 122	15902		Glu-23 to Lys-29.	H0264: 2		
HTOGB55	781591	6151	157 - 390	15903			H0264: 2		
HTOGB92	529810	6152	40 - 132	15904		Lys-18 to Glu-24.	H0264: 2		
HTOGC16	927835	6153	22 - 102	15905			H0264: 2		
HTOGC20	960094	6154	191 - 334	15906		Thr-1 to Gly-13; Pro-26 to Leu-31.	H0318: 1 and H0264: 1.		
							H0264: 2		
HTOGD28	529806	6155	141 - 335	15907			H0264: 1 and H0445: 1.		
HTOGD43	650846	6156	2 - 172	15908		His-7 to Trp-12, Arg-15 to Trp-20, Tyr-22 to Trp-29.			
							H0264: 2 and L0766: 1.		
HTOGD50	529805	6157	222 - 434	15909			H0264: 2		
HTOGI75	869973	6158	101 - 307	15910		Pro-19 to Gly-24, Ser-41 to Ser-46.			
							H0264: 2		
HTOGI86	507294	6159	3 - 332	15911		His-1 to Cys-10.			
HTOGR50	529824	6160	139 - 231	15912			H0264: 2		
HTOGR65	618316	6161	339 - 572	15913			L0749: 2, H0264: 1 and S0002: 1.		
	869971	9607	292 - 624	19359					
	869972	9608	236 - 364	19360					
HTOGU30	961776	6162	13 - 105	15914		Phe-14 to Thr-24.	H0650: 1 and H0264: 1.		
HTOHB03	924986	6163	2 - 193	15915			H0581: 1 and H0264: 1.		
HTOHB42	714073	6164	361 - 158	15916			H0341: 1 and H0264: 1.		
HTOHB66	966688	6165	559 - 768	15917		Pro-18 to Pro-27.	H0318: 4, L0748: 2, H0264: 1 and H0543: 1.		



HTOHC78	577745	6166	18 - 239	15918	Ser-1 to Pro-7, Ala-14 to Thr-25, Pro-38 to Pro-44, Val-62 to Gly-73.	H0264: 2	
HTOHC84	537370	6167	69 - 266	15919	Cys-50 to Gly-56.	H0264: 2	
HTOHD27	799676	6168	3 - 128	15920		H0264: 2	
HTOHE53	531172	6169	1 - 129	15921		S0114: 1 and H0264: 1.	
HTOHG55	537366	6170	133 - 252	15922		H0264: 2	
HTOHI60	740611	6171	110 - 193	15923		H0318: 1 and H0264: 1.	
HTOHL22	968308	6172	113 - 241	15924		H0264: 2	
HTOHL35	537364	6173	1 - 201	15925	Arg-8 to Val-18, Arg-30 to Cys-36.	AR061: 1, AR089: 0 H0264: 2	
HTOHM54	537363	6174	78 - 266	15926	Pro-6 to Pro-14.	H0264: 2	
HTOHN24	971728	6175	3 - 122	15927	Lys-26 to Arg-33.	H0264: 2	
HTOHN42	537362	6176	28 - 147	15928	Ser-11 to Leu-16, Leu-20 to Arg-25.	H0264: 2	
HTOHP13	530350	6177	4 - 417	15929	Pro-11 to Ala-17.	H0264: 2, H0457: 1, H0271: 17q21 1 and H0543: 1.	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HTOHS32	678071	6178	46 - 201	15930	Pro-20 to His-39, Pro-47 to Ser-52.	H0416: 1 and H0264: 1.	
HTOHS68	507136	6179	3 - 311	15931	Asp-7 to Lys-16.	H0264: 2	
HTOHU09	920734	6180	1 - 168	15932		H0264: 2 and S0116: 1.	
HTOHV29	527865	6181	2 - 151	15933	Pro-9 to Glu-14.	H0264: 2	

HTOHX74	507139	6182	1 - 246	15934	Lys-1 to Ala-11, Pro-26 to Lys-41.	H0264: 2	
HTOHZ61	537371	6183	274 - 405	15935	Asn-1 to Tyr-6.	H0264: 2	
HTOIA12	851032	6184	1 - 360	15936		H0457: 1 and H0264: 1.	
HTOIA68	584946	6185	2 - 139	15937	Leu-1 to Arg-8.	H0264: 2	
HTOIJ67	537354	6186	114 - 356	15938	Pro-24 to Asn-32, Ala-36 to Gln-43, Asp-48 to Ala-57, Pro-66 to Arg-71.	H0264: 2	
HTOIK06	954518	6187	34 - 210	15939		S0114: 1, H0318: 1 and H0264: 1.	
HTOIK08	959996	6188	238 - 483	15940	Pro-10 to Gln-17.	L0766: 2, H0306: 1 and H0264: 1.	
HTOIN17	537322	6189	1 - 276	15941	Gly-1 to Leu-6.	H0264: 2	
HTOIO29	506720	6190	63 - 230	15942		H0264: 2	
HTOIO36	537320	6191	92 - 244	15943	Leu-38 to Ser-43.	H0264: 2	
HTOIO79	537321	6192	1 - 174	15944	Gly-1 to Arg-9.	H0264: 2	
HTOIP32	869941	6193	207 - 470	15945		H0264: 2	
HTOIP53	557824	6194	122 - 289	15946		H0264: 2	
HTOIQ05	932440	6195	110 - 274	15947	Gly-2 to Lys-9, Asp-15 to Trp-20.	H0264: 2	
HTOIR12	537319	6196	229 - 80	15948		H0264: 2	
HTOIS27	485268	6197	282 - 413	15949	Gly-24 to Ser-29.	H0264: 1, H0543: 1 and H0423: 1.	
	934366	9609	188 - 292	19361	Ala-23 to Glu-28.		
HTOIT32	418666	6198	2 - 94	15950		H0271: 1 and H0264: 1.	
HTOIW02	920752	6199	1 - 243	15951	Ser-1 to Ser-11.	H0264: 2	
HTOIW40	669595	6200	113 - 271	15952		H0264: 1 and H0543: 1.	
HTOIX09	836003	6201	40 - 258	15953	Cys-1 to Glu-7, Ser-25 to Ser-32.	H0556: 1, H0264: 1 and H0422: 1.	
HTOIZ34	707039	6202	107 - 241	15954	Ser-6 to Gly-12, Arg-40 to Ala-45.	H0264: 1, H0625: 1, L0666: 1 and L0740: 1.	
HTOJA65	456824	6203	213 - 353	15955	Leu-1 to His-6, Pro-11 to Trp-16.	H0556: 2, H0265: 1 and H0264: 1.	
HTOJA83	574764	6204	50 - 250	15956	Gln-25 to Arg-30.	H0264: 2	

HTOJA96	968510	6205	27 - 107	15957	Tyr-42 to Trp-50.	H0264: 2	
HTOJB59	574761	6206	176 - 316	15958	Gly-10 to Gly-15.	H0264: 2	
HTOJB67	726577	6207	245 - 466	15959	Ser-8 to Met-15, Gly-24 to Pro-29, Lys-63 to Ser-74.	H0445: 2 and H0264: 1.	
HTOJF65	715820	6208	89 - 262	15960		S0114: 1 and H0264: 1.	
HTOJG08	869926	6209	2 - 166	15961		H0264: 2	
HTOJI24	766963	6210	2 - 391	15962	Arg-43 to Trp-48.	H0341: 1, H0264: 1 and H0543: 1.	
HTOJJ17	574735	6211	18 - 155	15963		H0264: 2, L0748: 1 and L0749: 1.	
HTOJK48	574348	6212	29 - 217	15964		H0264: 2	
HTOJK79	531320	6213	3 - 245	15965		S0114: 1 and H0264: 1.	
HTOJK84	952741	6214	7 - 201	15966	Gly-32 to Ile-37.	H0264: 1 and H0445: 1.	
HTOJL55	825165	6215	8 - 139	15967		S0114: 1 and H0264: 1.	
HTOJL71	574529	6216	23 - 133	15968		H0264: 2	
HTOJM06	936089	6217	396 - 644	15969	Ser-35 to Ala-48, Ser-73 to Gly-82.	H0264: 1, S0428: 1 and S0053: 1.	
HTOJM70	799689	6218	1 - 159	15970		H0264: 3	
HTOJS81	711021	6219	1 - 195	15971		H0556: 1 and H0264: 1.	
HTOJT90	921016	6220	148 - 369	15972	Leu-1 to Thr-6.	H0341: 2, H0264: 2, L0471: 1 and H0542: 1.	
HTSAA22	415775	6221	2 - 181	15973		H0402: 1 and H0087: 1.	
HTSEU58	521995	6222	86 - 271	15974	Trp-10 to Lys-19, Gln-21 to Thr-48.	H0318: 1, H0087: 1 and L0747: 1.	
HTSFZ77	935620	6223	105 - 266	15975	Pro-29 to Asn-34, Glu-43 to Lys-49.	H0402: 3 and H0087: 1.	
HTSGB93	526625	6224	89 - 277	15976		H0087: 4 and L0752: 1.	121700, 122000, 188040
HTSGM65	576062	6225	151 - 309	15977		H0087: 2	
HTSGW24	971724	6226	295 - 609	15978	Ser-35 to Trp-44.	H0087: 1 and S0052: 1.	
HTSHA61	960474	6227	282 - 97	15979	Ala-47 to Phe-52.	H0087: 1 and H0116: 1.	
HTSHD86	773726	6228	182 - 499	15980		H0063: 1 and H0087: 1.	
HTSHF47	720403	6229	99 - 326	15981	Glu-1 to Pro-16.	H0486: 1 and H0087: 1.	

HTSHM38	972248	6230	2 - 604	15982	Asn-6 to Ser-15, Pro-29 to Arg-42, Pro-91 to Gln-108, Lys-123 to Arg-133, Ile-157 to Phe-168, Gln-171 to Val-178, Gly-185 to Pro-197.	AR051: 26, AR054: 20, AR050: 18, AR089: 6, AR061: 2 H0087: 1 and H0264: 1.		
HTUAA40	522671	6231	190 - 330	15983		H0185: 1 and S0052: 1.		
HTUAA86	522076	6232	19 - 96	15984	Val-1 to Thr-11.	H0185: 2 and L0764: 1.		
HTWAB64	522058	6233	2 - 151	15985	Ile-1 to Ile-6.	H0187: 1 and H0576: 1.		
HTWAH16	880725	6234	139 - 243	15986		S0114: 1 and H0187: 1.		
HTWAH51	614968	6235	60 - 167	15987	Lys-16 to Lys-21.	H0187: 1 and H0576: 1.		
HTWAM50	753217	6236	2 - 232	15988		H0341: 1 and H0187: 1.		
HTWBD74	716756	6237	3 - 173	15989	Pro-1 to Gly-10, Pro-17 to Phe-24, Thr-33 to Val-45.	S0002: 1 and H0436: 1.		
HTWBE77	781306	6238	531 - 719	15990		H0436: 1, L0731: 1 and H0445: 1.		
HTWBF61	579041	6239	62 - 187	15991		S0114: 1 and H0436: 1.		
HTWBF65	576623	6240	114 - 605	15992	Gln-59 to Leu-65.	H0341: 1 and H0436: 1.		
HTWBF82	854019	6241	2 - 217	15993		H0436: 2		
HTWBG40	711271	6242	42 - 329	15994	Cys-7 to Ser-13.	H0436: 1, L0748: 1 and H0422: 1.		
HTWBH73	708331	6243	32 - 211	15995	Ser-6 to Asp-12.	H0436: 2		
HTWBH15	842014	6244	3 - 314	15996	Asp-1 to His-6.	L0596: 2, H0436: 1, H0445: 1 and H0543: 1.		
HTWBI71	935647	6245	115 - 228	15997	Thr-6 to Gln-12, Glu-16 to Cys-25, Pro-28 to Leu-34.	H0436: 2		
HTWBL88	784364	6246	2 - 178	15998	His-21 to Glu-27, Gly-49 to Lys-59.	H0402: 1 and H0436: 1.		
HTWBN85	577510	6247	1 - 81	15999		S0114: 1 and H0436: 1.		
HTWBO55	732182	6248	385 - 525	16000		H0436: 2 and L0439: 2.		
HTWBR04	787303	6249	3 - 317	16001		H0581: 1 and H0436: 1.		
HTWBZ01	578678	6250	1 - 102	16002	Arg-12 to Ser-33.	H0436: 2		
HTWCA19	582498	6251	131 - 436	16003		S0002: 1 and H0436: 1.		

HTWCA76	770109	6252	3 - 149	16004	Phe-40 to Phe-45.	S0218: 1 and H0436: 1.		
HTWCD27	658018	6253	1 - 186	16005	His-4 to Glu-27.	H0318: 1 and H0436: 1.		
HTWCD40	670812	6254	166 - 348	16006		H0436: 2		
HTWCE72	575962	6255	150 - 272	16007	Gly-3 to Phe-11, Pro-13 to Lys-38.	H0436: 2		
HTWCF06	935641	6256	195 - 371	16008	Glu-17 to Ala-22.	H0306: 1 and H0436: 1.		
HTWCF25	924008	6257	1 - 219	16009	Pro-18 to Lys-25.	H0436: 4		
HTWCF94	747197	6258	132 - 347	16010	Ser-1 to Pro-7, Pro-45 to Gly-54, His-58 to Ser-67.	H0436: 2		
HTWCG45	548176	6259	1 - 165	16011	Lys-17 to Thr-26.	S0278: 1 and H0436: 1.	6q14	136550, 203310, 269920, 602772
HTWCG65	869547	6260	115 - 312	16012	Lys-31 to Lys-47.	AR089: 1, AR061: 0 H0650: 1 and H0436: 1.		
HTWCG69	575950	6261	3 - 92	16013	Ala-9 to Ala-17.	S0053: 1 and H0436: 1.		
HTWCI42	713022	6262	1 - 162	16014		H0436: 2		
HTWCK07	953482	6263	204 - 425	16015		S0114: 1 and H0436: 1.		
HTWCL29	740327	6264	2 - 79	16016	Ala-3 to Lys-13.	H0521: 1 and H0436: 1.		
HTWCM36	971129	6265	156 - 380	16017	Ser-2 to Ser-7.	H0305: 2, L0766: 2, H0436: 2, L0777: 2 and L0748: 1.		
HTWCM56	662321	6266	352 - 525	16018	Asn-1 to Glu-12.	S0142: 1 and H0436: 1.		
HTWCN33	577494	6267	230 - 475	16019	Ser-15 to Lys-20.	H0265: 1 and H0436: 1.		
HTWCN83	573580	6268	2 - 280	16020		H0305: 5 and H0436: 1.		
HTWCR25	575959	6269	138 - 338	16021		H0436: 2		
HTWCS11	967190	6270	94 - 204	16022		H0436: 2		
HTWCT42	713870	6271	1 - 150	16023		H0436: 2		
HTWCT61	575975	6272	86 - 232	16024		H0402: 2 and H0436: 1.		
HTWCX32	669745	6273	2 - 97	16025		H0436: 2, L0021: 1 and L0766: 1.		
HTWCY05	920337	6274	1 - 150	16026		H0436: 2		
HTWCY69	869553	6275	100 - 369	16027	Glu-26 to Lys-34.	H0436: 2		
HTWDB72	835624	6276	197 - 376	16028	Tyr-40 to Asp-45, Asn-52 to Ser-57.	H0436: 2		
HTWDF82	921697	6277	3 - 233	16029	Phe-10 to Tyr-22, Arg-45 to Gly-57.	H0179: 1 and H0436: 1.		

HTWDH14	669560	6278	3 - 338	16030	Asp-68 to Asn-74. Ala-7 to Ser-12, Tyr-42 to Lys-50, Asn-62 to Ile-67, Thr-100 to Val-105.	H0521: 2, S0114: 1, L0654: 1, H0522: 1 and H0436: 1.		
HTWDH75	767368	6279	138 - 302	16031		H0556: 1 and H0436: 1.		
HTWDM43	715352	6280	147 - 314	16032	Pro-43 to Ser-51.	S0474: 2, H0436: 1, L0749: 1 and H0542: 1.		
HTWDN01	916680	6281	75 - 221	16033	Glu-37 to Ala-42.	H0436: 2		
HTWDN17	664115	6282	1 - 345	16034	Asn-50 to Gly-55, Gln-69 to Leu-74.	H0436: 1 and H0543: 1.		
HTWDQ60	575939	6283	1 - 105	16035		H0436: 2		
HTWDS35	697825	6284	3 - 374	16036	Glu-15 to Tyr-24, Lys-29 to Lys-34, Leu-38 to His-43, Arg-47 to Glu-57, Ser-65 to Gln-78, Arg-86 to Ala-91, Leu-95 to Gln-100, Gln-107 to Glu-115.	L0803: 1, H0521: 1 and H0436: 1.		
HTWEA61	965453	6285	3 - 368	16037	Glu-24 to Thr-30, Ser-39 to Pro-44.	H0436: 2		
HTWEC63	735003	6286	2 - 136	16038	Gln-1 to Glu-21.	S0114: 1 and H0436: 1.		
HTWED17	663714	6287	257 - 370	16039		S0218: 1, H0370: 1 and H0436: 1.		
HTWED28	686598	6288	269 - 400	16040	Arg-11 to Leu-19.	H0581: 1 and H0436: 1.		
HTWEG12	970538	6289	3 - 167	16041	Arg-39 to Gly-49.	H0436: 2		
HTWEH16	661860	6290	3 - 227	16042	Ser-42 to Ser-52, His-60 to Arg-70.	H0341: 1 and H0436: 1.		
HTWEJ14	792648	6291	171 - 371	16043	Phe-11 to Cys-17.	H0436: 2		
HTWEM37	449136	6292	3 - 260	16044	Pro-26 to Pro-36, Phe-54 to Gly-65.	H0264: 1 and H0436: 1.		
HTWEM63	745024	6293	346 - 77	16045		H0436: 1 and H0423: 1.		
HTWER78	836799	6294	16 - 378	16046	Arg-74 to Tyr-80.	H0486: 1 and H0436: 1.		
HTWES75	767257	6295	88 - 180	16047		H0436: 2		
HTWEU29	711673	6296	3 - 224	16048	Arg-56 to Ser-65.	L0439: 2, T0041: 1, H0436: 1q21-q22	104770, 107670,	

							1 and L0748: 1.		110700, 135940, 145001, 146790, 152445, 152445, 159001, 159440, 159440, 159440, 174000, 179755, 182860, 182860, 182860, 186780, 191030, 191315, 230800, 230800, 266200, 600897, 600923, 601105, 601412, 601652, 602491
HTWEX09	625458	6297	3 - 182	16049			Glu-1 to Ala-6.	H0436: 1 and H0444: 1.	
HTWEX18	666305	6298	210 - 353	16050				H0436: 1 and H0423: 1.	
HTWEY30	918641	6299	661 - 434	16051			Ser-18 to Phe-27, Ser-30 to Ser-40, Thr-50 to Lys-55.	H0436: 2 and L0751: 1.	
HTWFB37	708908	6300	3 - 164	16052			Thr-45 to Gly-53.	H0306: 1 and H0436: 1.	
HTWFB75	767253	6301	85 - 243	16053			Asp-6 to Gly-12, Gln-23 to Gln-29, Arg-37 to Gly-49.	S0116: 1, H0421: 1 and H0436: 1.	
HTWFF46	869499	6302	2 - 205	16054			Lys-25 to Trp-31, Arg-43 to Pro-53, Pro-59 to Lys-64.	H0436: 5	
HTWFG44	935270	6303	224 - 478	16055			Glu-31 to Gly-38, Ser-45 to Arg-50, Gly-56 to Ile-62, Pro-70 to Cys-81.	H0457: 1 and H0436: 1.	
HTWFI19	668579	6304	216 - 332	16056			Pro-13 to Val-18, Pro-20 to Trp-29.	H0436: 4	
HTWFK15	869498	6305	139 - 282	16057				H0436: 2	
HTWFM20	917272	6306	195 - 536	16058			Pro-77 to Thr-86.	S0114: 1, H0063: 1 and H0436: 1.	
HTWFN64	757593	6307	105 - 278	16059				H0402: 1 and H0436: 1.	

HTWFO63	658473	6308	75 - 131	16060		H0542: 2, H0402: 1, H0318: 1, H0436: 1, L0753: 1 and L0758: 1.	
HTWFP14	869489	6309	3 - 209	16061	His-9 to Gly-14.	H0436: 2	
HTWFP33	916562	6310	79 - 309	16062	Arg-27 to Leu-33, Val-51 to Asp-56, Arg-64 to Gly-72.	H0402: 1, H0264: 1 and H0436: 1.	
HTWFP53	721768	6311	272 - 400	16063	Pro-1 to Gly-6.	H0402: 1 and H0436: 1.	
HTWFR17	663697	6312	20 - 253	16064		H0264: 1 and H0436: 1.	
HTWJA24	954881	6313	281 - 538	16065		H0576: 2, S0002: 1 and L0599: 1.	
HTWJA59	812705	6314	130 - 279	16066	Gly-30 to Gln-37.	H0576: 2	
HTWJA83	780990	6315	70 - 216	16067	His-25 to Asn-35.	H0576: 2	
HTWJA95	796259	6316	139 - 258	16068	Met-6 to Asn-11, Pro-34 to Gln-40.	H0576: 2	
HTWJC43	715081	6317	49 - 207	16069	Ser-11 to Gly-20.	H0583: 1 and H0576: 1.	
HTWJC75	767134	6318	3 - 77	16070	Glu-3 to Glu-13, Lys-15 to Asn-22.	H0576: 2	2
HTWJC85	757125	6319	200 - 334	16071	Arg-27 to Tyr-32.	H0556: 1 and H0576: 1.	
HTWJF59	693116	6320	197 - 361	16072	Met-1 to Gly-25, Tyr-27 to Met-39.	H0576: 1 and H0444: 1.	
HTWJF66	576164	6321	204 - 443	16073	Gln-5 to Phe-10.	H0255: 1, H0576: 1 and H0423: 1.	
HTWJF95	745182	6322	78 - 248	16074		H0402: 1, H0576: 1 and H0423: 1.	
HTWJH57	812698	6323	68 - 265	16075	Trp-4 to Ser-9, Pro-54 to Pro-61.	H0576: 1 and H0445: 1.	
HTWJL91	789487	6324	243 - 368	16076		S0114: 1, H0576: 1 and L0750: 1.	
HTWJM05	850055	6325	68 - 250	16077		H0402: 2 and H0576: 1.	
HTWJO45	717592	6326	43 - 192	16078	Thr-25 to Thr-32, Arg-43 to Lys-49.	H0576: 2 and L0776: 1.	
HTWJQ19	668466	6327	253 - 342	16079	Pro-23 to Val-29.	H0254: 1, H0576: 1 and H0422: 1.	
HTWJY82	698335	6328	1 - 93	16080		S0114: 1 and H0576: 1.	
HTWKG30	691882	6329	21 - 131	16081	Pro-1 to Trp-6.	H0589: 1 and H0576: 1.	



HTWKNS3	728014	6330	3 - 269	16082	Lys-12 to Met-24, Pro-43 to Asp-50, Glu-63 to Ser-68, Pro-73 to Ser-88.	H0576: 2		
HTWKT61	709451	6331	44 - 118	16083		H0576: 2		
HTWKX27	574092	6332	29 - 265	16084	Leu-16 to Val-21.	S0053: 1, H0576: 1 and L0748: 1.		
HTWKZ04	614980	6333	109 - 294	16085	Phe-5 to Ile-11.	S0426: 1 and H0576: 1.		
HTWKZ17	529749	6334	234 - 365	16086		H0265: 2 and H0576: 1.		
HTWLD37	841951	6335	89 - 400	16087		S0053: 1 and H0576: 1.		
HTWLG13	656772	6336	2 - 160	16088	Gln-43 to Gly-53.	H0255: 1 and H0576: 1.		
HTWLG76	795694	6337	267 - 539	16089		S0182: 1 and H0576: 1.		
HTXAK52	869460	6338	7 - 264	16090	Arg-1 to Gly-14.	H0265: 1 and H0318: 1.		
HTXAK78	530137	6339	174 - 347	16091	Leu-30 to Thr-35.	H0265: 2		
HTXAO23	676386	6340	15 - 92	16092		H0265: 1 and S0114: 1.		
HTXBF75	963029	6341	98 - 277	16093	Ser-23 to Gln-40.	H0265: 1 and H0556: 1.		
HTXBH24	418592	6342	2 - 151	16094		H0265: 2		
HTXBJ36	529759	6343	17 - 232	16095	Ser-13 to Leu-19.	H0265: 2		
HTXBJ92	706472	6344	227 - 361	16096		L0749: 2, H0265: 1, H0402: 1 and L0667: 1.		
HTXBK75	869401	6345	1 - 123	16097		H0265: 2		
HTXBN83	781443	6346	3 - 101	16098		H0265: 1 and S0218: 1.		
HTXBO11	967750	6347	176 - 400	16099	Lys-25 to Pro-31.	H0265: 1 and H0421: 1.		
HTXBO21	869461	6348	2 - 193	16100		H0265: 1 and H0542: 1.		
HTXBO51	970855	6349	146 - 592	16101	Leu-1 to Gln-19, Ala-84 to Gly-99, Pro-128 to Arg-142.	L0777: 2, H0265: 1, H0556: 1, H0255: 1, L0662: 1, L0375: 1, L0378: 1 and L0519: 1.		
HTXBX49	529662	6350	91 - 195	16102		H0265: 2		
HTXBX77	529661	6351	120 - 353	16103	Ser-59 to Gln-64.	H0265: 2		
HTXCB32	529615	6352	199 - 402	16104	Pro-21 to Lys-32.	H0265: 2 and L0596: 1.		
HTXCL28	952022	6353	56 - 175	16105		H0265: 2 and H0556: 1.		
HTXCU76	765655	6354	188 - 589	16106	Cys-122 to His-131.	H0265: 1, H0556: 1, H0457: 1 and L0766: 1.		
HTXCW16	522365	6355	50 - 265	16107	Val-10 to Cys-17.	H0265: 2		

HTXCW27	491257	6356	378 - 166	16108			H0265: 1 and H0522: 1.		
HTXCX05	932476	6357	148 - 303	16109			H0265: 1 and H0556: 1.		
HTXCY16	537413	6358	1 - 231	16110		Arg-12 to Gly-21, Ala-23 to His-32, Ala-59 to Gln-71.	H0265: 2		
HTXCY84	924996	6359	2 - 241	16111			H0265: 2		
HTXCZ16	537485	6360	213 - 416	16112		Glu-14 to Asp-19.	H0265: 2		
HTXDG37	968886	6361	71 - 466	16113		Arg-5 to Gly-13.	AR051: 14, AR050: 13 H0265: 1, L0637: 1, L0766: 1 and H0521: 1.		
HTXDI51	537474	6362	86 - 235	16114		Ser-28 to Val-34, Leu-43 to Arg-48.	H0265: 2		
HTXDO50	537487	6363	120 - 314	16115			H0265: 2		
HTXDQ25	869369	6364	1 - 306	16116		Ser-4 to Ser-15.	H0265: 1 and H0556: 1.		
HTXDS80	869435	6365	2 - 82	16117		Pro-1 to Lys-9.	H0265: 2		
HTXDW14	966588	6366	1145 - 432	16118		Tyr-17 to Asp-22, Pro-75 to Ser-81.	H0265: 1, H0583: 1 and L0741: 1.		
HTXDX61	784768	6367	1 - 423	16119		Arg-1 to Asp-16.	AR061: 6, AR089: 3 H0265: 1, H0264: 1, H0488: 1 and H0543: 1.		
HTXDX82	931113	6368	307 - 513	16120		Leu-20 to His-31.	H0265: 1 and H0556: 1.		
HTXDZ01	921486	6369	62 - 223	16121			H0265: 2 and S0134: 1.		
HTXEA41	974530	6370	198 - 422	16122		Thr-1 to Trp-10, Phe-18 to Arg-25.	H0265: 2		
HTXEA62	812833	6371	22 - 294	16123			H0265: 1 and S0428: 1.		
HTXEC53	529755	6372	118 - 369	16124		Thr-1 to Asn-7, Phe-21 to Ser-27.	H0265: 2 and L0589: 1.		
HTXEE70	537405	6373	2 - 157	16125		Pro-26 to Pro-37.	H0265: 1 and H0264: 1.		
HTXEM54	764221	6374	109 - 261	16126		Arg-4 to Pro-11, Thr-45 to Glu-50.	H0265: 2	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HTXEP20	537483	6375	3 - 194	16127		Gly-1 to Gln-9, Trp-11 to Arg-21, Gly-26 to Lys-32, Ala-38 to Phe-50.	H0265: 2		

HTXEP49	722181	6376	191 - 400	16128		L0589: 2, H0265: 1 and H0090: 1.	
HTXEP76	527697	6377	114 - 365	16129		H0265: 1, H0305: 1 and S0426: 1.	
HTXEQ05	932471	6378	65 - 235	16130		H0265: 2 and H0305: 1.	
HTXET161	537471	6379	3 - 191	16131		H0265: 2	
HTXET167	783784	6380	68 - 211	16132		H0265: 1 and H0556: 1.	
HTXET175	664468	6381	1 - 174	16133		H0265: 1 and S0053: 1.	
HTXEW14	932437	6382	37 - 219	16134	Lys-5 to Ala-11.	H0265: 2	
HTXFB03	924995	6383	176 - 316	16135	Pro-15 to Gly-32.	H0265: 2, S0134: 1, S0474: 1, L0662: 1, H0576: 1 and L0599: 1.	
HTXFB78	869408	6384	3 - 263	16136	Pro-34 to Phe-40.	H0265: 1 and H0556: 1.	
HTXFB95	537399	6385	3 - 332	16137	Trp-21 to Gln-26, Thr-37 to Ser-43, Glu-78 to Cys-84.	H0265: 2	
HTXFC07	918644	6386	254 - 430	16138	Gln-27 to Arg-32.	H0265: 1, H0556: 1 and L0749: 1.	
HTXFD75	537401	6387	94 - 231	16139	Ser-23 to Thr-28.	H0265: 2	
HTXFE47	790855	6388	189 - 464	16140		H0556: 20, H0265: 8, H0638: 1, H0660: 1, H0521: 1 and L0749: 1.	
HTXFF04	615593	6389	399 - 653	16141	Lys-18 to Pro-26.	H0265: 1, H0318: 1 and L0748: 1.	
HTXFF66	973429	6390	91 - 438	16142	Pro-27 to Ser-32, Glu-41 to Ser-47, His-85 to Trp-90, Glu-92 to Val-111.	H0265: 2 and H0556: 1.	
HTXFF91	780083	6391	145 - 258	16143		H0265: 2	
HTXFI58	557838	6392	2 - 151	16144	Thr-8 to Trp-19, Glu-24 to Tyr-29.	H0265: 2	
HTXFK45	523385	6393	108 - 218	16145	Tyr-12 to Tyr-24.	H0265: 2	
HTXFN69	869397	6394	3 - 476	16146	Val-7 to Phe-14, Glu-32 to Glu-39.	H0265: 1, H0556: 1 and H0607: 1.	
HTXFO65	926534	6395	442 - 549	16147	Asp-9 to Lys-14.	H0265: 1 and H0370: 1.	
HTXFS95	796025	6396	23 - 325	16148	Pro-22 to Val-30.	H0265: 1, H0556: 1 and	

HTXFT03	924952	6397	2 - 100	16149			S0216: 1. H0556: 7, H0265: 1 and L0748: 1.		
HTXFT60	923937	6398	2 - 244	16150	Ala-1 to Cys-9, Cys-13 to Gly-18.		H0265: 1 and H0556: 1.		
HTXFT22	537491	6399	167 - 322	16151			H0265: 2		
HTXGB20	933878	6400	1 - 93	16152			H0265: 1 and H0556: 1.		
HTXGB65	577711	6401	182 - 448	16153	Met-26 to Pro-39.		H0305: 2, H0265: 1, H0589: 1 and L0592: 1.		
HTXGD30	529724	6402	63 - 185	16154	Gly-5 to Leu-12.		H0265: 2 and H0556: 1.		
HTXGL73	529745	6403	15 - 242	16155			H0265: 2 and H0556: 2.		
HTXGN76	527016	6404	246 - 500	16156			H0265: 2 and H0318: 1.		
HTXGO74	869391	6405	1 - 84	16157			H0265: 2		
HTXGQ37	575461	6406	49 - 306	16158	Gly-40 to Lys-46.		H0265: 1 and S0114: 1.		
HTXHA16	661818	6407	46 - 351	16159	Gly-17 to Gln-23.		H0265: 2		
HTXHD24	727469	6408	53 - 274	16160			H0265: 2 and H0556: 1.		
HTXJA66	698461	6409	26 - 238	16161	Lys-41 to Leu-51.		H0265: 1 and H0556: 1.		
HTXJB15	660059	6410	131 - 277	16162			H0556: 2		
HTXJB35	707768	6411	43 - 348	16163	Gly-60 to Gly-67.		H0556: 1, H0625: 1, L0603: 1 and L0697: 1.		
HTXJC65	666565	6412	1 - 177	16164	Thr-11 to Tyr-19, Phe-32 to Phe-38.		H0556: 1, L0520: 1, L0794: 1 and H0422: 1.		
HTXJE76	745813	6413	166 - 318	16165			H0265: 1 and H0556: 1.		
HTXJF30	692607	6414	106 - 456	16166			H0556: 1, H0421: 1 and L0766: 1.		
HTXJG06	933230	6415	161 - 379	16167	Lys-1 to Gly-20, Leu-31 to Phe-36, Met-39 to Gly-48, Gln-57 to Arg-67.		H0543: 2, H0265: 1, H0556: 1 and H0423: 1.		
HTXJG19	974010	6416	213 - 335	16168			H0265: 1 and H0556: 1.		
HTXJG23	675315	6417	265 - 414	16169	Ser-24 to Lys-31, Val-45 to Ser-50.		H0556: 3		
HTXJG53	752160	6418	2 - 307	16170	Gly-19 to Gly-24, Ser-75 to Gly-83.		L0742: 2, H0556: 1, H0255: 1 and L0754: 1.		
HTXJH73	582143	6419	152 - 304	16171	Val-37 to Glu-42.		H0265: 1 and H0556: 1.		

HTXJI68	912611	6420	1 - 297	16172	Ile-2 to Cys-14, Asp-38 to Leu-43.	H0556: 2		
HTXJJ55	959169	6421	61 - 288	16173		H0556: 2		
HTXJK23	675782	6422	77 - 340	16174	Pro-7 to Pro-14, Pro-55 to Ser-61, Gly-70 to Asp-76.	H0556: 1 and S0002: 1.		
HTXJL01	916254	6423	116 - 334	16175		S0052: 3, H0556: 1 and L0777: 1.		
HTXJL02	919691	6424	259 - 483	16176		H0556: 1, H0650: 1 and L0759: 1.		
HTXJM73	783572	6425	1 - 138	16177	Gly-3 to Pro-11.	H0556: 2		
HTXJN04	566887	6426	298 - 684	16178	Ser-41 to Ser-49, Gly-77 to Arg-83, Arg-91 to Arg-96.	AR051: 46, AR050: 46, AR054: 28 H0556: 2 and H0265: 1.		
HTXJN68	752940	6427	79 - 288	16179	Gln-13 to Thr-18.	H0556: 1 and S0002: 1.		
HTXJO34	703973	6428	82 - 225	16180	Arg-8 to Asp-17.	H0265: 1 and H0556: 1.		
HTXJO61	663153	6429	2 - 361	16181	Pro-20 to Arg-28.	H0556: 2		
HTXJO85	869123	6430	24 - 341	16182	Arg-52 to Ser-57, Gly-67 to Cys-78.	H0556: 2 and L0599: 1.		
HTXJP28	974315	6431	35 - 355	16183		H0265: 1, H0556: 1 and H0635: 1.		
HTXJQ73	719077	6432	373 - 513	16184	Ile-7 to Ser-12.	H0556: 1 and S0052: 1.		
HTXJR67	739586	6433	3 - 182	16185		H0265: 1 and H0556: 1.		
HTXJS64	746481	6434	430 - 570	16186	Gln-5 to Arg-12, Arg-16 to Cys-27.	H0556: 1, H0581: 1 and H0445: 1.		
HTXJV49	867083	6435	235 - 726	16187	Leu-21 to Glu-32, Gly-39 to Ser-63.	H0265: 1 and H0556: 1.		
HTXJW56	859854	6436	2 - 295	16188	Lys-1 to Thr-10.	H0556: 1 and S0216: 1.		
HTXJY51	872233	6437	8 - 229	16189	Lys-1 to His-7, Cys-37 to Arg-43.	H0556: 1, S0052: 1 and H0521: 1.		
HTXKB42	841986	6438	135 - 326	16190	Lys-19 to Thr-30.	H0556: 2		
HTXKC23	529756	6439	90 - 233	16191		H0556: 4, H0265: 2 and L0601: 1.		
HTXKD62	743435	6440	1 - 285	16192	Pro-10 to Lys-16, Asn-22 to Pro-33.	H0265: 1 and H0556: 1.		
HTXKH47	720186	6441	202 - 330	16193		H0556: 2		

HTXKJ93	796245	6442	1 - 264	16194	Cys-9 to Gly-14.	H0265: 1, H0556: 1 and L0748: 1.	12	
HTXKJ55	671285	6443	121 - 315	16195	His-2 to His-7.	H0265: 1, H0556: 1 and L0543: 1.		
HTXKJ58	574788	6444	1 - 486	16196	Arg-1 to Leu-11, Ser-54 to Val-59, Gly-61 to Tyr-67, Pro-76 to Pro-94, Glu-99 to Ala-104.	H0271: 7, H0556: 1 and H0416: 1.		
HTXKJ89	767234	6445	203 - 385	16197	Thr-7 to Trp-15, Pro-19 to Ile-25, Gly-42 to Val-47.	H0556: 2		
HTXKJ95	795788	6446	43 - 234	16198	Pro-42 to Arg-47.	H0556: 2		
HTXKK62	751050	6447	3 - 347	16199		H0556: 1, S0278: 1, L0805: 1 and H0422: 1.	12q22	147440, 201470, 235800, 273300
HTXKM25	664886	6448	2 - 175	16200	Glu-1 to Trp-13, His-36 to Arg-41.	H0265: 1 and H0556: 1.		
HTXKM84	782951	6449	31 - 216	16201		H0265: 1 and H0556: 1.		
HTXKN90	787551	6450	190 - 309	16202		H0556: 3		
HTXKP42	713631	6451	321 - 452	16203	Lys-5 to Asn-11.	L0439: 4 and H0556: 2.		
HTXKQ25	934801	6452	137 - 364	16204	Glu-22 to His-37, Phe-67 to Arg-76.	H0556: 1, S0218: 1 and L0754: 1.		
HTXKQ55	947789	6453	3 - 305	16205	Asp-21 to Lys-26.	AR061: 2, AR089: 2 H0265: 1 and H0556: 1.	13q12	121011, 121011, 129500, 253700, 601885, 602221
HTXKS02	919676	6454	84 - 293	16206		H0556: 2		
HTXKU69	754404	6455	42 - 410	16207	Arg-7 to Ala-19.	H0556: 2 and L0757: 1.		
HTXKV16	869348	6456	221 - 376	16208	Arg-1 to Thr-10, Met-25 to Asp-39.	H0556: 2		
HTXKV38	918567	6457	7 - 192	16209		H0556: 3 and H0445: 1.		
HTXKZ89	786409	6458	186 - 305	16210		H0063: 2 and H0556: 1.		
HTXLA63	917316	6459	140 - 409	16211	Leu-1 to Ala-6, Ser-48 to Lys-53.	H0556: 1, S0114: 1 and S0116: 1.		
HTXLD06	934555	6460	243 - 491	16212	Tyr-37 to Gly-43, Arg-45 to Val-52, Lys-63 to Gly-70.	H0556: 2 and S0052: 1.		

HTXLD68	752484	6461	3 - 272	16213	His-7 to Gly-17, Glu-23 to Ile-31, Ala-38 to Phe-43.	H0265: 1, H0556: 1 and H0436: 1.		
HTXLE37	790392	6462	22 - 228	16214		H0265: 1, H0556: 1 and L0545: 1.		
HTXLE56	861983	6463	350 - 535	16215	Lys-14 to Ser-19, Gln-36 to Arg-43.	H0556: 1, H0300: 1 and H0179: 1.		
HTXLE75	766798	6464	404 - 670	16216	Thr-1 to Lys-10, Glu-36 to Cys-50.	H0556: 1, H0264: 1, L0804: 1 and H0445: 1.		
HTXLE79	774125	6465	76 - 420	16217	Trp-29 to Arg-35.	H0265: 1 and H0556: 1.		
HTXLF08	958421	6466	3 - 119	16218	Ala-6 to Arg-11.	H0556: 1, L0665: 1, L0750: 1 and H0445: 1.		
HTXLG57	790610	6467	1 - 306	16219	Arg-28 to Gln-35, Thr-44 to Lys-51, Lys-55 to Gly-61.	H0556: 1 and H0090: 1.		
HTXLG64	974598	6468	392 - 667	16220		H0265: 2 and H0556: 1.		
HTXLH60	869336	6469	275 - 421	16221		H0556: 2		
HTXLI65	974018	6470	277 - 456	16222		H0556: 2 and H0265: 1.		
HTXLI91	787577	6471	178 - 381	16223	Gln-29 to Gln-35, Ser-58 to Gln-67.	H0556: 2		
HTXLJ70	756679	6472	401 - 631	16224	Arg-36 to Ala-42.	H0556: 1 and H0271: 1.		
HTXLK35	840283	6473	249 - 455	16225		L0766: 2, H0556: 1, H0656: 1, H0255: 1, L0740: 1, L0749: 1, H0444: 1 and L0592: 1.		
HTXLK95	795355	6474	161 - 286	16226	Arg-1 to Ser-15.	H0265: 1 and H0556: 1.		
HTXLL78	773071	6475	1 - 183	16227	Thr-24 to Gln-34.	H0556: 2		
HTXLL89	786475	6476	114 - 287	16228	Pro-41 to Thr-46.	H0556: 3 and H0265: 1.		
HTXLN72	951958	6477	3 - 158	16229		H0556: 3		
HTXLO02	918658	6478	126 - 356	16230		H0556: 2 and L0748: 1.		
HTXLO14	869332	6479	167 - 358	16231		H0556: 2		
HTXLP15	869202	6480	206 - 466	16232	Glu-27 to Met-32.	H0556: 4		
HTXLP18	973431	6481	67 - 279	16233	Glu-14 to His-21, His-36 to Lys-45.	H0556: 5 and H0265: 1.		
HTXLQ28	869331	6482	1 - 267	16234	Ser-8 to Asp-13, Gly-26 to Trp-32,	H0556: 2 and H0265: 1.		

HTXLT33	919761	6483	1 - 147	16235	Arg-44 to Leu-49, Ser-18 to Asp-24,	H0556: 1 and H0543: 1.	
HTXLU64	783411	6484	63 - 266	16236	Gln-9 to Phe-14, Asn-27 to Asn-32.	H0265: 1 and H0556: 1.	
HTXLU82	779215	6485	1 - 297	16237	Pro-33 to Ser-43, Glu-59 to Phe-64.	H0265: 1 and H0556: 1.	
HTXLV39	972762	6486	210 - 482	16238		H0556: 2 and S0114: 1.	
HTXLY02	866819	6487	185 - 379	16239	Pro-13 to Arg-18, Leu-39 to Asn-44, Ser-58 to Tyr-63.	H0556: 1 and S0114: 1.	
HTXMC82	779198	6488	181 - 525	16240	Gln-31 to Phe-36.	H0556: 2 and H0265: 1.	
HTXMH13	928105	6489	319 - 480	16241	Ala-1 to His-7.	H0265: 1 and H0556: 1.	
HTXMH80	775487	6490	528 - 803	16242		H0556: 1 and H0069: 1.	
HTXMI18	921101	6491	82 - 282	16243		H0556: 1 and T0041: 1.	
HTXMI62	870456	6492	1 - 402	16244	Arg-4 to Pro-13, Gly-45 to Val-52.	H0556: 2	
HTXMU03	923001	6493	141 - 350	16245		H0265: 1 and H0556: 1.	
HTXMJ50	830027	6494	2 - 358	16246	Asp-1 to Glu-6, Ile-14 to Ala-21, Pro-49 to Phe-67, His-73 to Ser-98.	H0265: 2, H0556: 1 and L0748: 1.	Xq21 305450, 309600, 309605, 311360, 314580
HTXMO28	823172	6495	2 - 232	16247	Gln-7 to Ala-17.	H0556: 2 and L0589: 1.	
HTXMO81	869319	6496	210 - 536	16248		H0556: 2 and L0415: 1.	
HTXMP92	972759	6497	291 - 566	16249	Pro-10 to Asn-16.	H0556: 2 and H0265: 1.	
HTXMQ07	952206	6498	115 - 294	16250	Asp-1 to Asn-6.	H0556: 1, S0218: 1 and H0591: 1.	
HTXMT06	933376	6499	50 - 247	16251	Lys-61 to Ala-66.	H0265: 1 and H0556: 1.	
HTXMU10	961472	6500	2 - 100	16252	Ser-15 to Ala-20.	H0556: 2 and H0090: 1.	
HTXMX03	923005	6501	578 - 763	16253	Ser-22 to Lys-27.	H0556: 2, H0445: 2, L0748: 1 and H0444: 1.	
HTXMX32	789063	6502	3 - 212	16254	Glu-8 to Lys-13.	H0556: 1 and H0063: 1.	
HTXMX41	789332	6503	247 - 459	16255	Cys-10 to Ala-17, Thr-39 to Pro-45.	H0556: 1, H0063: 1, L0375: 1, L0750: 1 and L0758: 1.	
HTXMY15	780129	6504	253 - 501	16256	Glu-1 to Asn-9.	H0556: 2 and H0179: 1.	
HTXMY23	835044	6505	522 - 217	16257	Asp-19 to Val-24.	AR051: 38, AR050: 35, AR051: 38, AR050: 35,	



								AR054: 32 H0556: 1 and S0002: 1.		
HTXNZ91	835045	9610	642 - 361	19362				H0556: 2		
HTXND08	789619	6506	26 - 148	16258			Ile-33 to Ser-40.	H0556: 3, H0583: 1 and H0625: 1.		
	869311	6507	379 - 618	16259						
HTXND91	789706	6508	317 - 592	16260				H0556: 1 and S0114: 1.		
HTXNF56	974048	6509	125 - 373	16261				H0556: 2 and H0265: 1.		
HTXNJ80	966045	6510	151 - 282	16262				H0556: 2		
HTXNM82	973993	6511	218 - 346	16263				H0556: 3		
HTXNN03	922997	6512	262 - 405	16264				H0556: 2		
HTXNN33	780965	6513	692 - 483	16265			Gly-5 to Leu-10.	H0556: 5, L0766: 2, H0265: 1, H0521: 1 and L0748: 1.		
HTXNO48	963444	6514	154 - 255	16266				H0556: 2		
HTXNO58	916249	6515	115 - 414	16267			Gln-17 to Glu-39, Gln-62 to Lys-67, Leu-71 to Gln-76.	H0556: 2		
HTXNQ06	934303	6516	157 - 288	16268				H0556: 1 and H0445: 1.		
HTXNQ63	951939	6517	29 - 229	16269			Pro-1 to Gly-9, Lys-16 to Cys-27.	H0556: 3		
HTXNR01	913781	6518	151 - 396	16270				H0556: 2, H0265: 1, H0255: 1 and H0444: 1.		
HTXNR17	856465	6519	45 - 479	16271			Arg-1 to Lys-14, Glu-37 to Gly-43, Cys-47 to Gly-57, Ala-103 to Gly-108.	H0556: 8, H0265: 1, S0114: 1, H0445: 1 and H0542: 1.		
HTXNT07	952165	6520	182 - 775	16272			Pro-14 to Pro-28.	L0740: 3, L0777: 2, H0556: 1, S0114: 1 and L0780: 1.		
HTXNT43	869398	6521	509 - 664	16273				H0265: 1 and H0556: 1.		
HTXNT76	869189	6522	481 - 732	16274				H0556: 2, L0439: 2, L0438: 1, L0747: 1 and L0749: 1.		
HTXNU51	972837	6523	3 - 350	16275				H0556: 3		
HTXNY70	869289	6524	67 - 315	16276			Val-27 to Leu-32.	H0556: 2		
HTXNY74	918076	6525	36 - 536	16277			Arg-1 to Gly-7, Phe-11 to Arg-23.	H0556: 2 and H0179: 1.		
HTXOC32	869280	6526	394 - 639	16278				H0556: 2 and H0265: 1.		

HTXOD62	806643	6527	13 - 234	16279			H0556: 1 and H0522: 1.		
HTXOG84	929289	6528	20 - 358	16280		His-2 to Gly-10, Glu-22 to Arg-28.	H0265: 1, H0556: 1, H0657: 1 and H0543: 1.		
HTXOH04	926909	6529	119 - 295	16281			H0556: 2		
HTXOH60	869271	6530	2 - 172	16282			H0265: 1 and H0556: 1.		
HTXOI50	869279	6531	348 - 554	16283			H0556: 4		
HTXOI92	974039	6532	280 - 477	16284		Asn-1 to Arg-11, Pro-13 to Ser-24.	H0265: 2, H0556: 2, H0255: 2 and H0423: 1.		
HTXOM10	963435	6533	1 - 108	16285		Met-13 to His-21.	H0265: 1 and H0556: 1.		
HTXOO06	934248	6534	347 - 535	16286		Thr-55 to Gln-61.	H0556: 2, L0749: 2, S0218: 1 and L0748: 1.		
HTXOO83	898860	6535	105 - 410	16287			H0556: 3, S0052: 2, S0134: 1, H0306: 1 and S0053: 1.		
HTXOR11	965090	6536	2 - 148	16288		Lys-1 to Glu-6.	H0556: 2		
HTXOR48	869253	6537	262 - 591	16289		Pro-46 to Gln-52, Thr-61 to Val-70.	H0556: 2 and L0595: 1.		
HTXOR86	914739	6538	64 - 255	16290		Gln-35 to His-44.	H0556: 4		
HTXOS47	965558	6539	34 - 198	16291		Gln-1 to Gly-8.	H0556: 3, L0759: 3, S0212: 1 and L0805: 1.		
HTXOT42	974034	6540	74 - 433	16292			H0556: 7, H0265: 1 and L0748: 1.		
HTXOU06	852057	6541	329 - 547	16293			H0556: 2 and H0486: 1.		
HTXOU48	869252	6542	2 - 262	16294		Lys-1 to Tyr-11, Thr-13 to Lys-21, Ser-79 to Arg-87.	H0556: 2		
HTXOU67	906909	6543	229 - 414	16295		Pro-22 to Ser-28.	H0556: 2		
HTXOX02	918556	6544	329 - 553	16296		Arg-8 to Arg-14.	H0556: 1 and H0318: 1.		
HTXOX42	920274	6545	209 - 553	16297		Pro-45 to Ser-53.	H0255: 2 and H0556: 1.		
HTXOZ02	918566	6546	95 - 289	16298			H0556: 2		
HTXPF93	954976	6547	2 - 178	16299			AR051: 33, AR054: 28, AR050: 24 H0556: 2		
HTXPI03	922877	6548	274 - 486	16300			H0556: 1 and H0271: 1.		
HTXPK10	963397	6549	112 - 450	16301		Ser-1 to Thr-13.	H0556: 2 and H0521: 1.		
HTXPK28	957888	6550	55 - 231	16302			H0556: 4 and H0265: 1.		

HTXPO91	869224	6551	114 - 350	16303	Gln-23 to Leu-28, Tyr-66 to Gln-74.	H0436: 2 and H0556: 1.	
HTXPO92	869214	6552	330 - 518	16304	Thr-30 to Thr-37.	H0556: 2	
HTXPP33	799925	6553	3 - 635	16305		AR054: 10, AR050: 8, AR051: 2 H0265: 2 and H0556: 1.	
HTXPR92	869221	6554	36 - 320	16306	Arg-15 to Ser-21, Arg-25 to Gly-30, Lys-74 to Lys-81.	H0556: 2	
HTXPT68	870074	6555	2 - 469	16307	Pro-46 to Ser-51.	AR089: 2, AR061: 2 H0556: 2	
HTXPW03	922884	6556	94 - 330	16308		H0265: 1 and H0556: 1.	
HTXPW20	869198	6557	252 - 485	16309	Leu-12 to Glu-24, Lys-52 to Ala-57.	H0556: 2	
HTXPX02	918494	6558	117 - 470	16310	Leu-7 to Gly-17, Thr-20 to Glu-29, Gln-45 to Phe-52, Phe-56 to Tyr-61, Glu-102 to Gln-116.	H0556: 2, H0265: 1 and L0523: 1.	
HTXQA18	869184	6559	375 - 605	16311	Thr-31 to Pro-38, Pro-68 to Gln-73.	S0114: 3 and H0556: 1.	
HTXQC36	961161	6560	337 - 522	16312	Arg-37 to Tyr-44.	H0556: 1 and H0255: 1.	
HTXQC77	974033	6561	444 - 698	16313	Ser-2 to Ser-8.	H0556: 3 and H0265: 1.	
HTXQF10	963403	6562	386 - 541	16314		H0265: 1 and H0556: 1.	
HTXQM11	965645	6563	121 - 303	16315	Thr-5 to Gly-10, Glu-52 to Leu-60.	H0556: 1 and S0053: 1.	
HTXQN24	963503	6564	1 - 447	16316	Pro-6 to Gly-12.	H0556: 2 and L0758: 1.	
HTXQR90	869139	6565	2 - 421	16317	Met-11 to His-26, Ser-62 to Ser-67, Ala-71 to Pro-77.	H0265: 1 and H0556: 1.	
HTXQU07	952030	6566	43 - 189	16318		H0556: 1 and H0543: 1.	
HTXQW02	918081	6567	196 - 459	16319		H0556: 2	
HTXQW29	869134	6568	105 - 386	16320		H0556: 2 and T0041: 1.	
HTXRA11	965596	6569	221 - 397	16321		H0556: 2	
HTXRB38	869133	6570	20 - 193	16322	Gln-1 to Gly-9, Lys-47 to Ser-53.	H0556: 1 and H0486: 1.	

HTXRC17	973981	6571	91 - 330	16323	Gln-7 to Lys-13, Trp-65 to Thr-72.	H0556: 2 and S0218: 1.		
HTXRD51	921285	6572	13 - 219	16324	Pro-11 to Ala-18, Ser-38 to Arg-44, Lys-59 to Pro-68.	H0556: 1 and H0069: 1.		
HTXRE04	926371	6573	3 - 227	16325	Gln-1 to Pro-10, Pro-32 to Arg-50.	H0556: 2		
HTXRJ02	918031	6574	1 - 321	16326	Ser-5 to Ser-15, Gly-73 to Asp-86.	H0556: 1 and H0318: 1.		
HTXRM86	975072	6575	3 - 578	16327		AR061: 2, AR089: 1 H0556: 3		
HTXRO02	918009	6576	99 - 206	16328		H0556: 2		
HTXSB88	914627	6577	541 - 846	16329	Lys-26 to Glu-31, Ala-42 to Tyr-49, Glu-79 to Trp-95.	H0556: 1, H0650: 1 and L0731: 1.		
HTXSK91	915903	6578	298 - 462	16330	Glu-4 to Ser-14, Asp-20 to Leu-25.	H0556: 1 and H0521: 1.	Xp21.1	301220, 302350, 306400, 309470, 309585, 311250, 312040, 312610, 314850
HTXSR92	973095	6579	132 - 428	16331		AR089: 0, AR061: 0 H0265: 1, H0556: 1 and H0083: 1.		
HTYNC52	869119	6580	451 - 251	16332	Leu-21 to Gly-27, Pro-39 to Lys-57.	S0216: 1 and S0452: 1.		
HTYSB62	768350	6581	26 - 250	16333	Val-1 to Ile-8, Glu-64 to Leu-72.	H0116: 2		
HTYSD32	702994	6582	1 - 258	16334		H0581: 1, H0116: 1 and L0746: 1.		
HTZAB04	973811	6583	382 - 648	16335	Thr-1 to Val-7.	S3018: 2 and S0140: 1.		
HUJAB25	878465	6584	3 - 353	16336	Gly-79 to Cys-84.	H0650: 2		
HUJAG07	951873	6585	215 - 3	16337	Tyr-2 to Thr-8, Lys-65 to Lys-71.	L0766: 4, H0318: 3, H0650: 1, L0772: 1 and L0774: 1.		
HUJAM39	911399	6586	631 - 1323	16338	Arg-1 to Trp-7, Arg-14 to Cys-32, Gln-65 to Leu-75.	H0457: 4, H0650: 1, H0656: 1, H0255: 1, H0641: 1 and L0766: 1.		

HUJBL07	951874	6587	1 - 195	16339			H0650: 1 and H0318: 1.		
HUJCB67	958914	6588	2 - 265	16340			H0318: 2, H0650: 1 and H0488: 1.		
HUJCM08	957784	6589	2 - 733	16341		Arg-9 to Trp-15, Ser-36 to Lys-49, Glu-95 to Ala-104, Pro-113 to His-118, Arg-124 to Gly-130, Arg-146 to Asp-153, Arg-159 to Arg-168.	H0585: 2 and H0650: 1.	5p15.33	
HUJCT61	933920	6590	304 - 606	16342		Pro-35 to Pro-40.	H0265: 1, H0556: 1 and H0650: 1.		
HUICV04	926175	6591	3 - 329	16343		Arg-1 to Met-8.	H0650: 1 and H0580: 1.		
HUJDB08	957786	6592	579 - 773	16344			H0650: 1, H0318: 1 and H0090: 1.		
HUJDI58	920851	6593	12 - 359	16345			S0114: 1 and H0650: 1.		
HUUAJ10	914330	6594	552 - 764	16346		Ser-13 to Arg-20, Glu-23 to His-28.	H0656: 2, L0749: 2, H0657: 1 and H0264: 1.		
HUUAPE2	966685	6595	168 - 650	16347		Cys-14 to His-23, Arg-27 to Arg-45.	H0656: 2 and H0318: 1.		
HUUA512	968953	6596	3 - 656	16348		Ser-42 to Pro-47.	H0656: 2 and H0486: 1.		
HUUA506	966816	6597	88 - 396	16349		Gly-1 to Ser-9, Arg-19 to Arg-28, Ala-36 to Gly-43, Ser-73 to Pro-78.	H0656: 2, L0748: 1 and L0757: 1.	22q13.2-q13.31	188826, 250100, 250800, 250800
HUUA583	921559	6598	80 - 316	16350			H0254: 2 and H0656: 1.		
HUUCI06	933322	6599	115 - 354	16351		Val-39 to Asn-44.	H0656: 1 and S0053: 1.		
HUUCI07	951824	6600	158 - 361	16352			H0656: 2		
HUUCOI2	969258	6601	3 - 53	16353			H0656: 2		
HUUCP08	957715	6602	247 - 429	16354			H0656: 2		
HUUCQ03	915269	6603	1 - 585	16355		Thr-40 to Lys-48, Lys-53 to Glu-58, Ser-74 to Ser-80, Phe-82 to Leu-91, Lys-141 to Asp-146, Arg-161 to Asp-167.	H0656: 1, H0581: 1, H0591: 1 and H0521: 1.		

HUUCS49	965987	6604	86 - 502	16356	Asp-177 to Lys-183. Gln-9 to Thr-16, Pro-36 to Glu-52.	H0656: 2		
HUUDG08	957721	6605	148 - 267	16357	Asn-18 to Gly-38.	H0656: 1 and H0306: 1.		
HUUDJ10	961717	6606	420 - 524	16358		H0656: 2		
HUUDS10	961706	6607	89 - 238	16359		H0650: 1 and H0656: 1.		
HWAAE23	675326	6608	497 - 706	16360		H0265: 1, H0556: 1, S0114: 1, H0581: 1, L0532: 1, L0758: 1 and L0599: 1.		
HWAAE55	719194	6609	98 - 349	16361	Asp-21 to Gly-26, Leu-50 to Ser-57.	H0370: 1 and H0581: 1.		
HWAAE90	778917	6610	87 - 287	16362		H0581: 1 and S0053: 1.		
HWAAF27	721151	6611	2 - 313	16363	Asp-28 to Thr-34.	H0485: 1 and H0581: 1.		
HWAAF66	908541	6612	3 - 320	16364	Arg-1 to Gly-11, Ser-40 to Asp-46.	AR089: 5, AR061: 2 H0583: 1, H0581: 1 and H0083: 1.		
HWAAF81	712203	6613	177 - 34	16365	Lys-6 to Gly-13.	H0581: 1 and H0457: 1.		
HWAAAL31	697716	6614	2 - 550	16366	Gly-8 to Trp-13, Pro-34 to Thr-46, Glu-66 to Pro-79, Ala-85 to Ala-100, Gln-102 to Glu-120, Glu-143 to Gln-156, Ser-168 to Ser-177.	H0581: 1 and H0457: 1.		
HWAAAM04	614973	6615	131 - 295	16367		H0265: 1 and H0581: 1.		
HWAAAM23	675712	6616	136 - 384	16368		H0635: 1, H0581: 1, L0545: 1, L0748: 1 and L0591: 1.		
HWAAAR36	915621	6617	195 - 353	16369	Phe-44 to Gln-53.	H0581: 2 and S0116: 1.		
HWAAAW74	935602	6618	2 - 127	16370	Gln-1 to Gln-7.	H0402: 1 and H0581: 1.		
HWAAAY03	923734	6619	176 - 373	16371		H0581: 1 and H0423: 1.		
HWABA49	859878	6620	83 - 382	16372	Leu-72 to Phe-79.	H0069: 1 and H0581: 1.		
HWABB37	870088	6621	2 - 382	16373	Gly-8 to Ala-18, Thr-92 to Thr-100.	H0581: 1 and H0521: 1.		
HWABE67	751418	6622	1 - 150	16374		H0581: 2		
HWABE94	838096	6623	406 - 182	16375	Val-22 to Gly-36, Pro-48 to His-53.	H0581: 2		

HWABF91	698131	6624	64 - 231	16376	Ser-2 to Gly-9.	H0581: 1 and H0422: 1.	
HWABI18	529803	6625	38 - 211	16377		S0114: 1, H0581: 1, H0264: 1 and S0053: 1.	
HWABQ57	734536	6626	3 - 125	16378	Arg-15 to Tyr-21, Pro-30 to Gln-41.	H0581: 2	
HWABS04	494837	6627	15 - 206	16379		H0581: 2, H0625: 1, S0428: 1, H0436: 1 and H0423: 1.	
HWABS51	719221	6628	3 - 209	16380		S0116: 1 and H0581: 1.	
HWABT82	784211	6629	1 - 117	16381	Phe-13 to Cys-18.	H0581: 2	
HWABW02	919441	6630	3 - 212	16382		H0581: 1 and S0052: 1.	
HWABW15	659944	6631	561 - 830	16383		H0581: 1 and H0444: 1.	
HWABW34	703861	6632	120 - 290	16384	Lys-15 to Pro-20.	H0581: 1 and H0487: 1.	
HWABW78	865145	6633	74 - 265	16385	Arg-11 to Cys-16.	H0581: 1 and S0142: 1.	
HWABX49	685187	6634	103 - 345	16386	Ser-14 to Lys-31, Pro-41 to Glu-55, Lys-63 to Glu-72.	H0581: 1 and H0522: 1.	
HWABX68	752825	6635	119 - 262	16387	Leu-1 to Val-14.	S0114: 1 and H0581: 1.	
HWABY12	968857	6636	281 - 577	16388	Asn-8 to Thr-16, Ser-28 to Phe-34, Thr-76 to Gly-85.	H0581: 1 and H0445: 1.	
HWACA38	943074	6637	2 - 577	16389	Asp-81 to Ile-89, Asn-112 to Ser-125, Leu-179 to Ser-189.	AR054: 255, AR050: 206, AR051: 141 H0271: 18, H0556: 9, H0265: 8, H0581: 8, L0761: 4, H0543: 4, H0422: 4, H0656: 3, H0457: 3, L0766: 3, T0002: 2, L0748: 2, H0220: 1, H0650: 1, S0282: 1, H0610: 1, H0069: 1, H0635: 1, H0179: 1, H0416: 1, H0031: 1, H0090: 1, T0041: 1, H0560: 1, H0529: 1, L0667: 1, L0649: 1, L0803: 1, L0659: 1, L0666: 1, S0052: 1, S0216: 1, H0702: 1, H0518: 1, H0521: 1.	

HWACB75	685247	6638	273 - 461	16390	Ile-22 to Asn-32, Gly-36 to Asp-49.	1, L0750: 1, H0445: 1, H0423: 1, H0677: 1 and H0506: 1.	
HWACG21	868530	6639	216 - 1	16391		S0114: 1 and H0581: 1.	
HWACG64	675517	6640	192 - 356	16392	Arg-38 to Ser-47.	H0581: 2	
HWACG68	752710	6641	163 - 351	16393	Arg-41 to Gly-48.	H0581: 2 and L0697: 1.	
HWACG94	670912	6642	185 - 322	16394		H0581: 2	
HWACH33	686740	6643	76 - 264	16395		S0114: 1, H0581: 1 and H0543: 1.	
HWACH49	722572	6644	128 - 349	16396	Pro-8 to Ser-14, Ser-55 to Lys-60.	H0581: 1 and S0052: 1.	
HWACK78	753565	6645	31 - 222	16397	Lys-37 to Ala-43.	H0581: 2	
HWACM17	662307	6646	2 - 148	16398		S0114: 1 and H0581: 1.	
HWACP03	869938	6647	3 - 320	16399		H0581: 1 and H0422: 1.	
HWACQ19	668093	6648	193 - 528	16400		H0581: 1 and H0264: 1.	
HWACR28	685983	6649	212 - 403	16401		H0581: 2	
HWACR77	771777	6650	1 - 117	16402		H0581: 3 and H0580: 1.	
HWACU96	787349	6651	116 - 259	16403		H0581: 2	
HWACV04	927275	6652	177 - 85	16404	Thr-9 to Leu-15.	H0581: 2 and H0436: 1.	
HWACX82	705560	6653	61 - 186	16405		H0581: 1 and S0052: 1.	
HWADA93	647703	6654	236 - 493	16406		H0581: 2, L0439: 2, H0318: 1, L0438: 1 and L0748: 1.	
HWADE38	709487	6655	327 - 446	16407		H0581: 1 and H0421: 1.	
HWADF26	957347	6656	1099 - 506	16408	Ala-45 to Asp-53, Asn-57 to Asp-68, Glu-84 to Cys-92, Asn-97 to Ser-105.	AR050: 78, AR054: 61, AR051: 60, AR061: 2, AR089: 1 H0581: 2, S0114: 1 and L0362: 1.	
HWADG01	915567	6657	120 - 350	16409	Asn-25 to Gly-30.	S0114: 1 and H0581: 1.	
HWADG26	680182	6658	226 - 423	16410		S0218: 1 and H0581: 1.	
HWADG27	958200	6659	300 - 605	16411	Gly-20 to Asp-26.	H0581: 2	
HWADI32	698651	6660	154 - 369	16412		H0581: 2	
HWADI53	727820	6661	41 - 298	16413	Ala-1 to Tyr-8,	L0748: 3, H0581: 2 and	



HWADJ29	690074	6662	109 - 285	16414	Asp-33 to Ser-38.	H0402: 1.		
HWADL02	918986	6663	48 - 143	16415	Phe-12 to Thr-17.	H0581: 1 and H0444: 1.		
HWADL36	706697	6664	38 - 292	16416	Pro-11 to Ile-16, Ile-40 to Cys-51, Gly-62 to Tyr-67.	H0581: 2 H0581: 1 and H0521: 1.		
HWADM30	868520	6665	97 - 297	16417	Ser-2 to Pro-8, Phe-16 to Cys-22.	S0114: 1 and H0581: 1.		
HWADN19	657528	6666	297 - 109	16418	Leu-33 to Lys-50.	H0457: 2 and H0581: 1.		
HWADN21	670274	6667	203 - 418	16419	Cys-1 to Arg-6.	H0250: 1 and H0581: 1.		
HWADN46	924888	6668	264 - 572	16420		H0271: 2 and H0581: 1.		
HWADO54	729136	6669	253 - 393	16421		H0581: 2 and H0264: 1.		
HWADP26	680211	6670	3 - 635	16422	Pro-20 to Gln-25, Ser-31 to Cys-36, Leu-39 to Ser-52, Val-64 to Ser-73, Ala-89 to Glu-98, Ser-100 to Glu-109, Val-113 to Gln-119, Lys-146 to Pro-151.	S0114: 1 and H0581: 1.		
HWADQ27	682448	6671	444 - 584	16423		H0318: 1 and H0581: 1.		
HWADQ91	693834	6672	212 - 358	16424		H0581: 2		
HWADR47	944042	6673	109 - 252	16425	Leu-1 to Trp-6.	S0212: 1 and H0581: 1.	4	
HWADS43	675454	6674	12 - 185	16426	Tyr-18 to Cys-27.	H0581: 2, L0790: 1 and S0428: 1.		
HWADS53	717544	6675	1 - 105	16427	Asp-17 to Asn-23.	H0581: 2, L0805: 1 and H0521: 1.		
HWADV51	916669	6676	3 - 326	16428		H0581: 1 and H0436: 1.		
HWADV82	708688	6677	251 - 382	16429		H0581: 1 and H0271: 1.		
HWADW41	722343	6678	2 - 334	16430	Gly-35 to Thr-40.	H0581: 1, L0743: 1 and H0543: 1.		
HWADX46	718647	6679	337 - 570	16431	Glu-1 to Pro-9, Pro-37 to Lys-42.	H0265: 1 and H0581: 1.		
HWADX62	868509	6680	218 - 424	16432	Glu-6 to Ser-14, Thr-39 to Gln-45.	H0581: 2 and H0583: 1.		
HWADY59	738874	6681	2 - 262	16433	Thr-5 to Lys-17.	H0581: 1, H0063: 1, H0436:		

HWADZ21	670270	6682	2 - 166	16434	Ser-1 to Asn-10.	1, H0444: 1 and L0599: 1.	
HWADZ84	782682	6683	2 - 97	16435		H0581: 1 and S0142: 1.	
HWAEA55	731094	6684	28 - 240	16436	Ala-1 to Leu-6.	H0581: 2	
HWAEA60	964384	6685	224 - 403	16437	Leu-6 to Gln-15.	S0218: 1 and H0581: 1.	
HWAEB19	750811	6686	2 - 154	16438		H0581: 1 and H0445: 1.	
HWAEB94	778009	6687	2 - 184	16439	Lys-46 to Glu-60.	S0114: 1 and H0581: 1.	
HWAE75	852921	6688	506 - 709	16440	His-5 to Arg-13, Leu-18 to Leu-23.	H0581: 1 and H0457: 1.	
						H0581: 3, H0318: 2, L0766: 2, L0438: 2, L0439: 2, L0758: 2, H0485: 1, L0451: 1, L0542: 1, L0745: 1 and H0543: 1.	
HWAEG01	915064	6689	70 - 168	16441		H0581: 1 and H0444: 1.	
HWAEG82	868489	6690	263 - 463	16442		H0581: 2 and H0543: 2.	
HWAEN20	868490	6691	119 - 472	16443		H0580: 1, H0581: 1 and L0748: 1.	
HWAFD32	850048	6692	43 - 279	16444	Leu-1 to Pro-6, Pro-13 to Glu-18, Gly-51 to Gly-62, Arg-71 to Tyr-79.	H0402: 1 and H0581: 1.	
HWAFG08	958173	6693	3 - 149	16445	Asn-23 to His-35.	S0114: 1, H0402: 1 and H0581: 1.	
HWAFR09	973926	6694	156 - 341	16446		H0581: 1 and H0090: 1.	
HWAF03	922832	6695	288 - 413	16447		S0134: 1 and H0581: 1.	
HWAFW34	926801	6696	6 - 179	16448	Ser-8 to Val-16, Ser-43 to Cys-49.	H0581: 2	
HWAFW39	947915	6697	188 - 370	16449		AR089: 2, AR061: 1 H0255: 1 and H0581: 1.	
HWAFX39	907631	6698	1 - 369	16450	Asn-36 to Arg-48, His-107 to Tyr-112.	H0581: 1 and H0543: 1.	
HWAFY24	868427	6699	113 - 361	16451		H0581: 2	
HWAFZ13	873396	6700	74 - 415	16452	Ser-35 to Arg-48, Leu-79 to Asn-88.	H0635: 2, H0581: 1 and H0521: 1.	
HWAFZ82	868426	6701	52 - 288	16453	Gly-12 to His-17.	H0581: 2	
HWAGC76	941311	6702	52 - 399	16454	Pro-21 to Ala-27, Ala-49 to Ala-56.	S0278: 8, S0344: 5, L0740: 3, H0250: 2, H0581: 2,	

HWAGD11	965895	6703	3 - 530	16455	Pro-38 to Lys-44, Arg-64 to Glu-79, Pro-129 to Gly-139, Arg-145 to Pro-151, Pro-154 to Arg-159.	H0457: 2, S0142: 2, L0774: 2, L0749: 2, S0116: 1, H0031: 1, H0063: 1, S0144: 1, S0002: 1, L0800: 1, L0744: 1, L0777: 1 and H0653: 1.		
HWAGD58	869383	6704	3 - 224	16456	Lys-39 to Pro-47.	H0581: 1 and H0542: 1.		
HWAGE40	926279	6705	2 - 262	16457	Pro-31 to Phe-36, Gln-39 to Gln-45.	H0250: 2 and H0581: 1.		
HWAGG79	930876	6706	32 - 286	16458	Glu-30 to Leu-48, Cys-53 to Ser-60.	H0581: 1 and H0543: 1.		
HWAGJ49	838759	6707	357 - 536	16459		H0581: 2		
HWAGK95	868403	6708	238 - 441	16460		H0581: 2 and H0264: 1.		
HWAGL53	842011	6709	180 - 422	16461	Gly-37 to Leu-42.	H0581: 1 and H0457: 1.		
HWAGM33	888685	6710	526 - 1140	16462	Ser-68 to Val-74, Pro-87 to Arg-97, Cys-153 to Trp-164, Arg-172 to Cys-178.	AR089: 1, AR061: 0 H0305: 1, H0581: 1, L0745: 1 and L0747: 1.		
HWAGX37	959586	6711	390 - 662	16463	Gly-29 to Ser-35.	H0457: 3, H0581: 1 and H0445: 1.		
HWAGY05	931001	6712	127 - 369	16464		H0264: 2, H0556: 1, H0581: 1 and H0444: 1.		
HWAGZ22	868523	6713	70 - 378	16465	Pro-33 to Phe-41, Phe-52 to Cys-58, Pro-88 to Cys-93.	H0581: 2, H0224: 1 and H0160: 1.		
HWAH110	960646	6714	1344 - 280	16466		H0581: 1 and T0041: 1.		
HWAH594	909667	6715	1 - 471	16467	Pro-52 to Ser-60, Ala-92 to Gly-102.	H0581: 2, H0341: 1, H0521: 1, H0543: 1 and S0452: 1.		
HWAE02	918215	6716	428 - 607	16468		H0581: 2		
HWBAB43	715110	6717	3 - 341	16469	Ile-2 to Asp-8.	H0580: 1 and H0521: 1.		

HWBAB69	582109	6718	2 - 388	16470	Asp-36 to Glu-44, Arg-62 to Leu-67, Arg-74 to Ala-80, Pro-100 to Gly-106. Ser-1 to Thr-16, Lys-27 to Glu-32, Ala-34 to Gly-40, Ala-79 to Gly-88.	H0580: 2, L0748: 1 and S0308: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWBAC22	823086	6719	932 - 657	16471	Met-36 to Tyr-44.	H0580: 1 and H0457: 1.		
HWBAL44	959449	6720	566 - 3	16472	Pro-27 to Thr-32, Pro-42 to Trp-48, Asp-109 to Arg-115, Phe-126 to Asp-136, Thr-145 to Lys-151.	H0580: 2, S0002: 2 and L0779: 2.		
HWBAN54	729329	6721	77 - 217	16473	Glu-16 to Phe-23, Leu-35 to Lys-42.	H0580: 1 and H0444: 1.		
HWBAQ16	868363	6722	767 - 925	16474		H0445: 2, H0580: 1, L0761: 1 and L0697: 1.		
HWBAR44	715963	6723	2 - 187	16475	Ala-47 to Asp-52.	H0580: 2 and L0747: 2.		
HWBAR90	788700	6724	427 - 561	16476	Ser-1 to Lys-6.	H0580: 1 and H0416: 1.		
HWBAS92	960197	6725	321 - 575	16477	Asn-1 to His-10, Ala-40 to Ile-45.	H0305: 2, H0580: 1 and L0518: 1.		
HWBAX06	935032	6726	1 - 117	16478	Gly-9 to Gly-21.	H0580: 1 and H0486: 1.		
HWBAX39	630220	6727	282 - 467	16479	Asp-1 to Cys-6.	H0580: 2		
HWBAZ51	707033	6728	246 - 413	16480	Arg-10 to Ser-15, Lys-34 to Pro-41.	H0580: 1 and H0264: 1.		
HWBBA64	927809	6729	120 - 371	16481	Leu-40 to Lys-45.	H0580: 1 and H0264: 1.		
HWBBA83	775401	6730	365 - 571	16482	Gly-22 to Gly-40, Pro-47 to Asn-54.	H0402: 1 and H0580: 1.		
HWBBB48	559708	6731	32 - 250	16483	Gly-13 to Trp-18, Ile-29 to Thr-35, Ala-42 to Ala-52.	H0580: 2		
HWBBE01	851029	6732	107 - 361	16484		H0580: 1 and H0457: 1.		
HWBBF31	868359	6733	3 - 230	16485		H0580: 1 and H0551: 1.		

HWBB120	669491	6734	34 - 243	16486	Met-1 to Glu-18.	H0580: 2		
HWBB154	971547	6735	45 - 200	16487	Glu-38 to Lys-45.	H0580: 1 and H0128: 1.		
HWBBL78	723183	6736	294 - 500	16488	Glu-57 to Glu-64.	L0748: 2, H0580: 1, L0171: 1, L0662: 1, S0052: 1 and H0522: 1.		
HWBBM28	686259	6737	177 - 374	16489		S0116: 1 and H0580: 1.	8q24-qter	
HWBBO46	718858	6738	428 - 571	16490		H0580: 1, L0748: 1 and H0444: 1.		
HWBBQ40	660971	6739	85 - 282	16491		H0254: 1 and H0580: 1.		
HWBBQ86	656704	6740	10 - 228	16492		S0298: 1 and H0580: 1.		
HWBBR65	747723	6741	32 - 232	16493	Gly-1 to Ser-9.	AR089: 28, AR061: 24 L0748: 2, H0580: 1 and H0421: 1.		
HWBBR78	663728	6742	148 - 354	16494	Asn-30 to Gln-39.	H0580: 1 and H0521: 1.		
HWBBV03	868346	6743	109 - 270	16495		H0402: 1 and H0580: 1.		
HWBBV59	682344	6744	232 - 348	16496	Trp-2 to Asp-11.	H0580: 2		
HWBBV83	771349	6745	3 - 257	16497		H0543: 2 and H0580: 1.		
HWBBW11	966665	6746	1 - 231	16498	Leu-10 to Ser-15, Gly-59 to Gly-66, Arg-72 to Cys-77.	H0402: 1, H0580: 1 and L0055: 1.		
HWBBX08	860880	6747	209 - 580	16499		H0580: 1 and H0271: 1.		
HWBBY01	916036	6748	218 - 436	16500	Leu-33 to Ile-40.	L0766: 2, S0134: 1, H0580: 1, L0060: 1 and L0747: 1.		
HWBBY74	711633	6749	239 - 397	16501	Ser-10 to Pro-21.	H0580: 1 and H0087: 1.		
HWBCA14	768667	6750	231 - 368	16502		H0580: 1 and S0002: 1.		
HWBCA22	674236	6751	209 - 472	16503	Lys-47 to Ser-54.	H0580: 2		
HWBCA92	712731	6752	320 - 442	16504	Lys-1 to Leu-7.	H0580: 1 and H0179: 1.		
HWBCC85	784189	6753	188 - 316	16505	His-1 to Lys-21.	H0580: 2		
HWBCC90	744828	6754	67 - 210	16506		H0580: 2		
HWBCF85	738552	6755	155 - 277	16507		H0580: 1 and H0318: 1.		
HWBCG35	707803	6756	3 - 299	16508	Gly-1 to Ser-12, Leu-19 to Arg-26, Pro-40 to Arg-46, Asp-52 to Asn-61, Arg-65 to Lys-71, Lys-76 to Gly-84.	H0580: 1 and H0090: 1.		

HWBCG45	527679	6757	13 - 177	16509	Pro-17 to Asn-31.	H0305: 2, H0580: 1 and H0576: 1.		
HWBCI65	868326	6758	267 - 106	16510	Pro-18 to Lys-41.	H0580: 2		
HWBCN09	868325	6759	141 - 347	16511		H0580: 1 and H0635: 1.		
HWBCN55	715064	6760	63 - 326	16512	Arg-25 to Asn-32.	H0580: 1 and H0581: 1.		
HWBCQ10	964233	6761	195 - 377	16513	Tyr-45 to Lys-51.	H0580: 1, H0581: 1 and L0529: 1.		
HWBCQ29	943720	6762	9 - 251	16514	Pro-14 to Met-22, Lys-25 to Ile-31, Ala-55 to His-65, Thr-74 to Lys-81.	AR089: 1, AR061: 1 H0580: 1, H0416: 1 and H0521: 1.		
HWBCS21	960025	6763	148 - 513	16515	Pro-1 to Lys-12, Pro-30 to Gln-35.	S0114: 1 and H0580: 1.		
HWBCS66	765986	6764	545 - 727	16516	Asp-10 to Gly-18.	H0186: 1 and H0580: 1.		
HWBCU82	955858	6765	176 - 382	16517	His-11 to Pro-19.	H0271: 2 and H0580: 1.		
HWBCW04	925649	6766	302 - 541	16518		H0580: 1 and H0445: 1.		
HWBCW88	882592	6767	283 - 636	16519	Lys-21 to Pro-44, Ser-61 to Arg-67, Asn-70 to His-75.	L0731: 5, L0779: 3, L0777: 2, H0580: 1, S0344: 1, L0768: 1, L0751: 1, L0745: 1, L0747: 1 and L0759: 1.		
HWBCW90	731395	6768	142 - 282	16520	Ser-5 to Asn-10.	H0580: 3		
HWBCY30	828318	6769	3 - 476	16521	His-1 to Asp-20, Pro-52 to Phe-57, Gly-64 to Glu-75.	H0580: 1, H0090: 1, L0662: 1, L0766: 1, L0776: 1, L0792: 1, L0740: 1, L0777: 1 and L0752: 1.		
HWBDL50	724145	6770	301 - 513	16522		H0580: 1, H0581: 1 and H0271: 1.		
HWBDM24	963498	6771	741 - 1040	16523		H0521: 2, H0580: 1 and H0522: 1.		
HWBDP31	697705	6772	136 - 426	16524	Asp-11 to Leu-16, Trp-35 to Leu-41, Arg-54 to Pro-60.	H0580: 2		
HWBDR66	750586	6773	370 - 522	16525		H0580: 2		
HWBDS89	771950	6774	76 - 270	16526	Thr-4 to Leu-29, Tyr-42 to Gly-48.	H0580: 2		
HWBDT15	659939	6775	62 - 184	16527		H0580: 1 and S0052: 1.		

HWBDW71	597259	6776	313 - 438	16528			H0580: 2		
HWBEA72	950702	6777	3 - 203	16529			H0580: 2		
HWBEI17	924913	6778	3 - 182	16530			S0116: 1 and H0580: 1.		
HWBEI53	968493	6779	26 - 118	16531			H0580: 1 and H0271: 1.		
HWBEL53	727617	6780	123 - 287	16532			H0580: 2		
HWBEL70	735390	6781	169 - 456	16533		Asp-1 to Gly-6.	H0580: 2		
HWBEL85	954600	6782	46 - 204	16534		Asn-10 to Gln-15,	H0580: 2 and H0179: 1.		
HWBEV44	716215	6783	43 - 195	16535		Glu-31 to Phe-37.	H0580: 2 and L0740: 1.		
HWBEV94	788574	6784	166 - 2	16536		Gly-2 to Pro-12,	H0580: 2		
						Gly-48 to Met-54.			
HWBEX27	682583	6785	1 - 489	16537		Leu-5 to His-12.	AR089: 1, AR061: 0 H0580: 2, L0663: 2, L0662: 1, L0657: 1, L0659: 1, L0666: 1, L0438: 1, L0748: 1 and L0777: 1.	15q15	177070, 177070, 182500, 218000, 227220, 243500, 600839, 601800
HWBEY38	709497	6786	226 - 366	16538			H0580: 1 and H0069: 1.		
HWBEZ47	719940	6787	2 - 160	16539			H0580: 2		
HWBEZ69	664699	6788	127 - 345	16540			H0580: 1, H0264: 1 and H0625: 1.		
HWBEZ90	923008	6789	181 - 336	16541		Asn-9 to Cys-14.	H0580: 2, L0775: 2 and H0521: 2.		
HWBEZ94	856472	6790	188 - 340	16542			H0580: 1, L0521: 1 and H0445: 1.		
HWBFE76	769769	6791	310 - 420	16543		Tyr-1 to Lys-6, Gly-20 to Trp-33.	H0580: 2		
HWBFG09	625162	6792	1 - 195	16544		Pro-13 to Gly-20.	H0580: 2		
HWBFL35	722921	6793	173 - 328	16545		Arg-8 to Arg-22, Asp-28 to Lys-34.	H0580: 2		
HWBFL96	708955	6794	155 - 406	16546		Gln-15 to Glu-22.	H0580: 2		
HWBFM58	735701	6795	1 - 162	16547			H0580: 2		
HWBFM78	773289	6796	117 - 365	16548		Ser-17 to Gly-29, Arg-35 to Ala-42.	H0580: 2		
HWBFN30	691611	6797	188 - 3	16549		Ser-4 to Lys-9.	H0580: 2		
HWBFY69	754729	6798	135 - 257	16550			H0580: 2		

HWBFY88	701904	6799	1 - 111	16551			H0580: 2		
HWBGB08	958611	6800	1 - 84	16552	Thr-16 to Glu-21.		H0580: 1 and H0522: 1.		
HWBGB47	948714	6801	2 - 124	16553			H0580: 2		
HWBGD16	924830	6802	102 - 302	16554			H0580: 1 and H0477: 1.	10q26	176943, 176943, 176943, 176943, 176943, 258870, 263700, 601969, 601969, 602084
HWBGF15	659687	6803	17 - 220	16555			H0265: 1 and H0580: 1.		
HWBGI01	915603	6804	23 - 178	16556			H0580: 1 and H0370: 1.		
HWBGI13	656308	6805	55 - 276	16557	Ser-25 to Ser-30.		H0580: 2		
HWBGI30	691511	6806	105 - 266	16558			H0580: 2		
HWWAZ06	933736	6807	1 - 213	16559			H0318: 3, S0134: 1, S0218: 1, H0657: 1 and L0758: 1.		
HWWDI03	922463	6808	113 - 301	16560	Val-7 to Leu-22, Cys-26 to Met-34, Gly-57 to Ser-63.		H0657: 2, H0255: 1 and H0318: 1.		
HWWEF06	933697	6809	3 - 128	16561	Gln-24 to Ile-30.		H0657: 2, L0770: 1, L0774: 1, L0666: 1, L0439: 1 and L0777: 1.		
HWWEI10	961741	6810	122 - 436	16562	Pro-9 to Ile-14.		H0657: 2, L0532: 1 and L0666: 1.		
HWWEP56	951811	6811	157 - 426	16563			H0657: 2, L0779: 2, L0766: 1 and L0655: 1.		
HWWFA12	968958	6812	151 - 285	16564	Lys-8 to Gly-19, Gly-37 to Arg-45.		H0657: 1, H0318: 1 and H0445: 1.		
HWWFK07	951819	6813	39 - 503	16565	Val-42 to Leu-56.		H0657: 3 and H0521: 1.		
HWWFU42	961739	6814	44 - 247	16566	Pro-17 to His-23.		H0657: 2		
HYAAB66	463413	6815	62 - 325	16567			H0583: 1 and H0422: 1.		
HYAAC60	731763	6816	349 - 552	16568	Leu-22 to Gln-29, Phe-31 to Ala-37.		S0218: 1 and H0583: 1.		
HYAAD03	923797	6817	229 - 336	16569			H0583: 2		
HYAAD67	664597	6818	67 - 180	16570			H0583: 2 and S0052: 1.		
HYAAD95	920280	6819	299 - 625	16571	Lys-14 to Tyr-31, Pro-39 to Phe-45, Trp-86 to Ala-92.		H0318: 7, H0445: 7, L0748: 6, L0766: 4, H0657: 3, L0751: 3, H0423: 3, H0583:		



									2, H0477: 2, L0761: 2, L0794: 2, L0758: 2, L0599: 2, S0114: 1, L0785: 1, H0254: 1, H0402: 1, H0486: 1, H0575: 1, H0421: 1, H0264: 1, H0059: 1, L0767: 1, L0768: 1 and L0655: 1.		
HYAAF33	915050	6820	136 - 396	16572		Ser-50 to Thr-58, Thr-64 to Gly-72.	H0583: 1, L0766: 1 and H0522: 1.				
HYAAH26	681251	6821	99 - 224	16573		Asn-19 to Tyr-28.	H0583: 1 and H0318: 1.				
HYAAH36	947242	6822	47 - 241	16574		Arg-44 to Cys-50.	H0583: 2				
HYAAI55	674591	6823	19 - 141	16575			L0748: 2, S0114: 1 and H0583: 1.				
HYAAI67	706512	6824	233 - 3	16576		His-2 to Trp-7, Glu-37 to Asn-43.	H0583: 1 and H0305: 1.				
HYAAJ36	744792	6825	1 - 414	16577		Ala-1 to Gly-6.	H0583: 1, H0521: 1, L0779: 1 and L0758: 1.				
HYAAJ89	678728	6826	137 - 283	16578			H0583: 1 and H0179: 1.				
HYAAN31	697590	6827	2 - 181	16579		Gly-20 to Trp-33.	H0583: 2				
HYAAO39	599000	6828	242 - 412	16580			H0583: 1 and S0002: 1.				
HYAAR17	662426	6829	2 - 223	16581			H0583: 2				
HYAAR95	862585	6830	252 - 536	16582		Ile-20 to Lys-25.	H0583: 1, S0002: 1, L0766: 1 and H0423: 1.				
HYAAS08	926017	6831	1 - 312	16583		Arg-1 to Phe-18, Pro-38 to Phe-43.	H0583: 1 and H0341: 1.				
HYAAT50	724047	6832	42 - 413	16584		Ile-3 to Ala-11, Arg-25 to Leu-32, Ser-40 to Cys-47, Leu-101 to Lys-111.	S0134: 1 and H0583: 1.				
HYAAU42	890595	6833	2 - 424	16585		Ser-37 to His-43, Val-45 to Trp-60, Lys-106 to Ser-113.	H0583: 1, L0539: 1 and H0271: 1.				
HYAAU88	786666	6834	125 - 430	16586		His-1 to Glu-8, Asp-14 to Cys-21.	S0218: 1, H0583: 1 and S0216: 1.				
HYAAX05	934878	6835	23 - 190	16587			H0583: 2				
HYAAX17	662439	6836	3 - 140	16588			H0583: 2				

HYAAX65	630213	6837	2 - 217	16589	Gly-1 to Trp-13.	H0583: 2			103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HYAAY36	766694	6838	110 - 412	16590	Pro-1 to His-11, Ser-52 to Ala-60.	H0556: 6, S0144: 5, H0255: 4, L0766: 4, L0757: 4, H0650: 3, S0278: 3, H0486: 3, S0344: 3, S0426: 3, L0655: 3, L0747: 3, L0749: 3, H0543: 3, S0134: 2, L0785: 2, H0069: 2, H0318: 2, H0179: 2, L0748: 2, L0756: 2, T0002: 1, H0583: 1, S0116: 1, H0402: 1, H0638: 1, S0358: 1, S0140: 1, H0025: 1, H0575: 1, H0581: 1, H0510: 1, H0271: 1, H0063: 1, H0087: 1, L0381: 1, L0378: 1, L0657: 1, L0659: 1, L0542: 1, L0383: 1, H0521: 1, H0436: 1, S0027: 1, L0744: 1, L0779: 1, L0731: 1, H0445: 1, L0601: 1, H0422: 1 and H0677: 1.		22q13.1	
HYABB23	675659	6839	302 - 448	16591		L0754: 3, L0803: 2, L0517: 2, L0362: 2, H0583: 1, L0773: 1, L0662: 1, H0521: 1 and L0780: 1.	2q12	129490, 167415, 176947	
HYABB40	799572	6840	288 - 545	16592	Phe-20 to Ser-29.	L0766: 2, L0747: 2, L0779: 2, L0777: 2, L0755: 2, H0583: 1, S0116: 1, L0800: 1, L0644: 1, L0626: 1, L0375: 1, L0776: 1, L0792: 1, L0663: 1, L0748: 1, L0758: 1, L0593: 1 and H0423: 1.			
HYABB96	692653	6841	3 - 170	16593	Ser-1 to Cys-14, Arg-20 to Lys-31, Leu-34 to Thr-46.	H0583: 1 and H0521: 1.	8		

HYABC02	919212	6842	3 - 179	16594	Tyr-1 to Thr-10, Thr-15 to Cys-21, Glu-29 to Trp-34.	H0583: 2		
HYABC58	924677	6843	92 - 202	16595	Asn-1 to Tyr-9.	H0583: 1 and H0063: 1.		
HYABE67	822985	6844	94 - 315	16596	Arg-11 to His-21, Tyr-46 to Gly-54.	H0583: 3 and L0754: 1.		
HYABE85	697593	6845	447 - 635	16597		H0583: 2, L0764: 1 and L0439: 1.		
HYABG22	811950	6846	3 - 146	16598		H0583: 2		
HYABL55	678864	6847	2 - 418	16599	Thr-12 to Thr-28, Glu-30 to Ala-36, Gly-40 to Arg-48, Ala-61 to Trp-75, Arg-94 to Gln-101, Thr-112 to Asp-117.	H0583: 1 and S0052: 1.		
HYABP53	971448	6848	26 - 637	16600	His-1 to Gly-12, His-33 to Gly-44, Thr-124 to Gly-137, Thr-153 to Thr-158, Arg-188 to Gly-193.	AR054: 47, AR051: 42, AR050: 39, AR089: 1, AR061: 1 H0583: 1 and H0656: 1.		
HYABV14	956236	6849	121 - 588	16601	His-1 to Trp-12, Arg-40 to Ala-45, Pro-50 to His-60, Asn-70 to Arg-76.	H0521: 4, L0766: 3, H0583: 1, H0581: 1, H0522: 1 and H0543: 1.		
HYACG89	724923	6850	231 - 512	16602		S0114: 1, L0002: 1 and H0583: 1.		
HYACI15	674268	6851	149 - 277	16603	Ser-21 to Gly-26.	H0583: 1 and H0576: 1.		
HYACI18	665720	6852	122 - 292	16604	His-25 to Lys-32.	H0583: 1, S0002: 1 and L0748: 1.		
HYACI64	929756	6853	299 - 523	16605	Ser-28 to Pro-33.	H0583: 1 and H0423: 1.		
HYACI95	746317	6854	3 - 284	16606	Gly-1 to His-10, Pro-13 to Arg-21, His-39 to Cys-53, Ser-79 to Lys-92.	H0583: 2		
HYACI53	727948	6855	214 - 375	16607	Gln-1 to Ser-6.	L0748: 4 and H0583: 1.		
HYACF71	760102	6856	275 - 565	16608	Pro-27 to Arg-38.	L0439: 2 and H0583: 1.		

HYACE11	966482	6857	74 - 229	16609	Gly-1 to Gly-7, Gln-36 to Leu-45.	H0583: 1 and L0517: 1.		
HYACD06	974495	6858	145 - 384	16610	Leu-10 to Tyr-28, Arg-39 to Lys-44.	H0583: 1		
HYACC03	923525	6859	199 - 462	16611	Pro-24 to Ser-29, Ser-45 to Glu-50.	H0583: 1 and L0589: 1.		
HYABB43	800006	6860	368 - 21	16612	Lys-16 to Arg-21, Ser-44 to Arg-52.	AR050: 136, AR054: 109, AR051: 95, AR089: 1, AR061: 1 L0805: 2, H0583: 1, L0764: 1, L0375: 1, L0776: 1, L0740: 1, L0731: 1 and L0759: 1.		
HYAAAY57	734463	6861	347 - 430	16613		H0583: 1 and L0439: 1.		
HYAAV45	717479	6862	360 - 542	16614	Ala-18 to Glu-26.	H0583: 1 and L0749: 1.		
HYAAU65	909956	6863	2 - 580	16615	Gln-68 to Ser-78, Thr-93 to Ser-101, Pro-119 to Ala-130.	AR089: 2, AR061: 1 L0748: 2 and H0583: 1.		
HYAAT55	731420	6864	3 - 233	16616		H0583: 1 and L0748: 1.		
HYAAT39	929758	6865	392 - 186	16617		L0754: 2 and H0583: 1.		
HYAAN84	782838	6866	164 - 364	16618	Ser-30 to Arg-39.	H0583: 1, L0759: 1 and L0589: 1.		
HYAAL49	973089	6867	115 - 300	16619	Val-13 to Gln-19, His-35 to Gly-42.	H0583: 1		
HYAAL41	887395	6868	3 - 257	16620		AR050: 73, AR054: 55, AR051: 52 H0583: 1		
HYAAL19	668338	6869	517 - 738	16621	Met-15 to Asn-21, Ser-36 to Ser-41.	L0439: 4, L0756: 2, L0594: 2, H0583: 1, L0766: 1, L0438: 1, L0779: 1 and L0758: 1.		
HYAAK77	887044	6870	212 - 727	16622		AR054: 69, AR050: 62, AR051: 57 H0583: 1 and L0745: 1.		
HYAAK74	765252	6871	1 - 177	16623	Cys-1 to Arg-12.	H0583: 1, L0748: 1 and L0749: 1.		

HYAAJ03	923526	6872	148 - 279	16624	Glu-26 to Cys-31.	H0583: 1 and L0777: 1.	
HYAAF78	773433	6873	1 - 219	16625	Arg-17 to Asn-23, Ser-43 to Ile-48.	H0583: 1, L0748: 1 and L0754: 1.	
HYAAD24	677019	6874	2 - 157	16626		H0583: 1 and L0748: 1.	
HYAAC24	677010	6875	186 - 389	16627	Glu-21 to Tyr-31, Lys-58 to Lys-64.	H0583: 1 and L0362: 1.	
HYAAB40	841969	6876	268 - 510	16628	Ile-15 to Ser-20.	H0583: 1 and L0717: 1.	
HWWEW11	965434	6877	298 - 471	16629	Gly-1 to Gly-29.	H0657: 1 and L0664: 1.	
HWWEI11	965426	6878	204 - 374	16630	Ser-1 to Leu-8.	H0657: 1 and L0367: 1.	
HWWEC06	933690	6879	85 - 234	16631	Ser-33 to Gly-43.	L0766: 2, H0657: 1 and L0749: 1.	
HWBGG82	779081	6880	377 - 538	16632		H0580: 1, L0745: 1 and L0600: 1.	
HWBGF04	927284	6881	1 - 489	16633		H0580: 1 and L0750: 1.	
HWBFY46	800638	6882	1 - 270	16634	Arg-5 to Arg-14.	AR054: 2, AR050: 2, AR051: 1 H0580: 1	
HWBEG18	909798	6883	55 - 696	16635	Trp-46 to Lys-51, Pro-109 to Asn-123, Phe-156 to Gly-165.	AR089: 82, AR061: 18 H0580: 1	
HWBEF69	754328	6884	324 - 229	16636		H0580: 1 and L0748: 1.	
HWBEE25	677660	6885	534 - 316	16637		H0580: 1 and L0742: 1.	
HWBEA06	934820	6886	31 - 237	16638	Gln-26 to Ser-31, Pro-34 to Gln-40.	H0580: 1 and L0766: 1.	
HWBDU71	835888	6887	418 - 531	16639		H0580: 1 and L0523: 1.	
HWBDU58	735774	6888	490 - 257	16640	Ser-18 to Asn-23, Thr-30 to Thr-41, Pro-63 to Arg-75.	L0439: 3 and H0580: 1.	
HWBDS59	743462	6889	274 - 447	16641	Pro-11 to Thr-20.	L0749: 2, H0580: 1 and L0747: 1.	22q11.2-qter
HWBDS12	971872	6890	3 - 200	16642	Ile-17 to Glu-37.	H0580: 1, L0775: 1 and L0755: 1.	
HWBDR82	779002	6891	153 - 437	16643	Phe-1 to Arg-13, Ser-21 to Gln-32.	H0580: 1 and L0748: 1.	
HWBDQ58	735769	6892	553 - 744	16644		L0748: 2 and H0580: 1.	
HWBDL82	728805	6893	26 - 355	16645	Pro-64 to Ile-75.	L0439: 2 and H0580: 1.	

HWBCK08	958956	6894	247 - 369		Glu-77 to Asp-88, Leu-101 to Gly-110. Pro-15 to Gly-22.		H0580: 1, L0665: 1 and L0599: 1.		
HWBCV48	721010	6895	136 - 408		Gly-7 to Ser-13, Pro-36 to Phe-46.		H0580: 1 and L0766: 1.		
HWBCU06	935028	6896	240 - 464		Glu-1 to Pro-11.		H0580: 1 and L0143: 1.		
HWBCS08	909031	6897	2 - 562		Cys-1 to Arg-6, Asp-18 to Ser-30, Cys-37 to Ser-42, Arg-64 to Lys-69, Arg-74 to Val-79, Asp-109 to Asp-115, Val-161 to Lys-166.		AR089: 4, AR061: 1 H0580: 1, L0809: 1 and L0604: 1.		
HWBCH41	868342	6898	175 - 363	16650			H0580: 1, L0766: 1 and L0748: 1.		
HWBCD20	669472	6899	143 - 418	16651	Arg-3 to Ser-17, Pro-33 to Ala-41.		H0580: 1 and L0439: 1.		
HWBCA08	958957	6900	1 - 222	16652	Cys-3 to Ser-10.		L0619: 1 and H0580: 1.		
HWBBY86	637734	6901	198 - 503	16653	Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Gln-102.		AR051: 12, AR054: 7, AR050: 3 H0580: 1		
	785151	9611	362 - 3	19363	Ser-8 to Gly-13, Pro-33 to Ser-39, Asn-96 to Lys-101.				
HWBBV52	726509	6902	78 - 218	16654	Leu-9 to Met-17.		H0580: 1, L0740: 1 and L0599: 1.		
HWBBU10	964237	6903	8 - 298	16655	Pro-24 to Cys-42, Arg-66 to Pro-71.		L0004: 1, H0580: 1 and L0606: 1.		
HWBBT71	760176	6904	247 - 381	16656	His-2 to Gly-8.		H0580: 1 and L0756: 1.		
HWBBR45	887686	6905	75 - 239	16657	Leu-4 to Asp-15.		AR054: 240, AR050: 238, AR051: 165 H0580: 1		
HWBBQ22	861613	6906	2 - 214	16658	Tyr-17 to Cys-22.		H0580: 1 and L0766: 1.		
HWBBN86	785313	6907	385 - 528	16659			L0748: 3 and H0580: 1.		
HWBBM02	919423	6908	3 - 116	16660			H0580: 1 and L0376: 1.		

HWBBL57	868349	6909	204 - 428	16661			H0580: 1 and L0763: 1.		
HWBBL03	923691	6910	50 - 217	16662	Asn-32 to Thr-39, Gly-46 to Phe-56.		H0580: 1, L0369: 1 and L0517: 1.		
HWBBF60	740125	6911	3 - 257	16663			H0580: 1 and L0754: 1.		
HWBBE52	868358	6912	150 - 365	16664	Arg-19 to Asn-33, Leu-52 to Trp-66.		AR054: 7, AR051: 4, AR050: 2 L0748: 2, H0580: 1, L0772: 1, L0771: 1, L0774: 1, L0776: 1 and L0758: 1.		
HWBBD23	675360	6913	1 - 276	16665	Arg-1 to Gly-8.		H0580: 1 and L0602: 1.		
HWBAX77	771958	6914	126 - 521	16666	Gly-7 to Leu-12, Ser-60 to Cys-66.		H0580: 1 and L0754: 1.		
HWBAT83	780976	6915	1 - 426	16667			H0580: 1 and L0745: 1.		
HWBAS96	796126	6916	1 - 186	16668	Ser-18 to Thr-23.		H0580: 1 and L0748: 1.		
HWBAR29	690422	6917	51 - 302	16669	Lys-15 to Ala-23, Ala-26 to Leu-34, Gly-46 to Cys-56.		H0580: 1 and L0740: 1.		
HWBAQ71	944080	6918	3 - 470	16670	Thr-1 to Ala-11, Thr-24 to Arg-29.		AR089: 3, AR061: 1 H0580: 1 and L0601: 1.		
HWBAQ02	919351	6919	102 - 311	16671	Cys-5 to Gln-13, Asn-24 to Arg-29.		L0779: 2 and H0580: 1.		
HWBAO50	724135	6920	202 - 402	16672	Leu-39 to Thr-44.		L0766: 2 and H0580: 1.		
HWBAO38	709490	6921	195 - 368	16673			L0748: 2 and H0580: 1.		
HWBAK65	747731	6922	277 - 140	16674	Thr-12 to Gly-19.		L0439: 3 and H0580: 1.		
HWBAJ13	975117	6923	1649 - 1440	16675			AR061: 2, AR089: 2 H0580: 1		
HWBAH72	766073	6924	227 - 469	16676			L0439: 2 and H0580: 1.		
HWBAH16	661664	6925	3 - 269	16677	Gln-9 to Asn-14.		H0580: 1, L0748: 1 and L0749: 1.		
HWBAF43	715111	6926	329 - 550	16678	Ser-27 to Arg-33, Thr-61 to Pro-67.		H0580: 1 and L0748: 1.		
HWBAF09	625401	6927	108 - 278	16679			H0580: 1 and L0766: 1.		
HWBAC02	919559	6928	1 - 135	16680	Gln-6 to Asp-21.		H0580: 1 and L0731: 1.		
HWAGV04	926759	6929	69 - 371	16681	Gly-3 to Cys-10, Leu-29 to His-34.		H0581: 1 and L0589: 1.		
HWAGQ02	953013	6930	550 - 185	16682	Cys-31 to Tyr-37,		L0766: 3, L0748: 2, L0785:		

					Lys-90 to Ser-99, Ser-102 to His-109, Gln-112 to Trp-121.		1, H0581: 1, L0763: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1 and L0599: 1.	
HWAQO42	958373	6931	1 - 489	16683	Pro-24 to Val-31.		H0581: 1 and L0800: 1.	
HWAQF10	961339	6932	733 - 930	16684			L0766: 2 and H0581: 1.	
HWAQFM60	868436	6933	1 - 315	16685	Asp-7 to Asn-17, Arg-40 to His-47, Pro-80 to Cys-91.		H0581: 1 and L0766: 1.	
HWAQFG12	969605	6934	70 - 417	16686	Ala-1 to Gly-10, Arg-33 to Thr-39, Phe-41 to Gly-50, Asp-59 to Gly-66, Arg-73 to Ser-80.		H0581: 1 and L0655: 1.	
HWAQFE87	949950	6935	121 - 420	16687	Gly-7 to Asp-12, Glu-31 to Ser-43, Val-76 to Ser-86.		AR089: 1, AR061: 1 H0581: 1	
HWAQFD56	868452	6936	98 - 217	16688	Asp-8 to Cys-15.		H0581: 1 and L0758: 1.	
HWAQFD10	963323	6937	3 - 131	16689			H0581: 1 and L0662: 1.	
HWAQFA47	948858	6938	110 - 358	16690	Ser-16 to Ile-22.		AR089: 4, AR061: 1 H0581: 1	
HWAQFA05	930990	6939	290 - 544	16691	Gln-1 to Arg-11, Pro-33 to Arg-41, Thr-46 to Gly-52, Arg-54 to Cys-75.		L0751: 2, H0581: 1, L0794: 1 and L0752: 1.	
HWAQEZ81	868460	6940	496 - 257	16692	Gln-1 to Lys-8.		H0581: 1	
HWAQEZ19	874351	6941	121 - 519	16693	Ser-1 to Ile-7, Phe-27 to Lys-44.		H0581: 1	
HWAQEU35	887166	6942	1 - 474	16694	Arg-22 to Arg-36.		AR051: 268, AR054: 153, AR050: 68, AR089: 54, AR061: 9 H0581: 1	
HWAER10	838763	6943	102 - 275	16695	Glu-52 to Lys-58.		H0581: 1 and L0766: 1.	
HWAEP25	951965	6944	2 - 793	16696	Asn-11 to His-19, Gly-31 to Val-37.		H0581: 1 and L0593: 1.	



						Thr-65 to Ser-74, Lys-177 to Thr-182, Gly-187 to Asp-199.			
HWAEK27	868494	6945	357 - 578	16697		Asn-1 to Lys-6, Gly-18 to Glu-28, Ser-53 to Thr-58.		H0581: 1 and L0589: 1.	
HWAEK71	931547	6946	2 - 553	16698		Gln-60 to Ala-68, Trp-132 to Ser-138, Lys-156 to Val-163.		AR089: 6, AR061: 1 L0740: 2 and H0581: 1.	
HWAEK08	958115	6947	3 - 716	16699		Leu-32 to Pro-38, Leu-124 to Ala-135.		AR061: 0, AR089: 0 H0581: 1, L0803: 1, L0664: 1, L0439: 1 and L0751: 1.	
HWADQ35	868526	6948	824 - 630	16700				L0759: 4, H0581: 1, L0055: 1, L0773: 1 and L0777: 1.	
HWADO27	682458	6949	222 - 380	16701		Lys-45 to Ser-53.		H0581: 1, L0748: 1 and L0754: 1.	
HWADN42	713272	6950	188 - 391	16702		Ser-10 to Gln-18.		H0581: 1, L0661: 1 and L0750: 1.	
HWADM84	782685	6951	209 - 373	16703				H0581: 1 and L0439: 1.	
HWADI46	891149	6952	2 - 265	16704		Gly-31 to Lys-43.		AR050: 65, AR054: 52, AR051: 41 H0581: 1	
HWADE25	677594	6953	314 - 427	16705				L0748: 2 and H0581: 1.	
HWADD18	665173	6954	83 - 349	16706				L0794: 2, L0665: 2, H0581: 1, L0438: 1, L0439: 1, L0749: 1, L0757: 1 and L0758: 1.	
HWACZ56	733002	6955	3 - 326	16707				H0581: 1 and L0596: 1.	
HWACY70	756888	6956	190 - 552	16708		Glu-1 to Lys-31, Ser-56 to Arg-61.		AR089: 6, AR061: 2 H0581: 1 and L0608: 1.	
HWACS69	774914	6957	391 - 552	16709				H0581: 1 and L0731: 1.	
HWACQ54	729166	6958	80 - 208	16710				H0581: 1 and L0745: 1.	
HWACJ56	733013	6959	205 - 414	16711		Pro-16 to Ile-23.		H0581: 1 and L0748: 1.	
HWACI46	718711	6960	383 - 538	16712				H0581: 1, L0748: 1 and L0581: 1.	
HWACH03	923374	6961	177 - 350	16713		Gly-41 to Ser-46.		H0581: 1, L0748: 1 and	

HWACD30	691565	6962				16714	Pro-5 to Arg-19.	L0749: 1.			
HWABY68	927387	6963		34 - 249	16715			L0747: 3 and H0581: 1.			
				2 - 382				L0777: 2 and H0581: 1.	19q13.3		113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWABV67	751409	6964		145 - 294	16716			H0581: 1 and L0748: 1.			
HWABV34	868535	6965		107 - 280	16717			H0581: 1 and L0747: 1.			
HWABP20	669486	6966		160 - 384	16718		Lys-21 to Arg-27, Ala-29 to Ala-35.	L0748: 2 and H0581: 1.			
HWABP19	951277	6967		33 - 254	16719			H0581: 1 and L0764: 1.			
HWABP02	919442	6968		322 - 423	16720			L0766: 2, H0581: 1 and L0746: 1.			
HWAB113	656767	6969		360 - 602	16721			L0766: 2 and H0581: 1.			
HWABH68	929275	6970		3 - 212	16722			H0581: 1 and L0646: 1.			
HWABG11	949088	6971		1 - 486	16723		Phe-13 to Ile-19.	AR089: 8, AR061: 2 H0581: 1			
HWABD52	726510	6972		4 - 207	16724			L0777: 2 and H0581: 1.			
HWAAAY79	791452	6973		45 - 329	16725		Thr-32 to His-38, Thr-46 to Asn-55.	H0581: 1 and L0598: 1.			
HWAAYS1	973237	6974		48 - 185	16726		Arg-18 to Asn-26.	H0581: 1			
HWAAAX48	721442	6975		144 - 377	16727		Pro-10 to Ser-22, Gly-57 to Cys-62.	H0581: 1, L0805: 1, L0776: 1, L0791: 1, L0663: 1 and L0439: 1.			
HWAAW65	779578	6976		594 - 809	16728		Gly-1 to Arg-14, Leu-32 to Gly-37, Pro-41 to Gly-46.	H0581: 1 and L0748: 1.			
HWAAQ76	887772	6977		3 - 590	16729		His-3 to Ile-9, Leu-13 to Leu-20, Ala-47 to Ser-54, Asn-86 to Pro-93.	AR050: 94, AR051: 77, AR054: 68 L0758: 2, H0581: 1 and L0779: 1.			
HWAAAM30	691878	6978		106 - 336	16730		Asn-36 to Glu-42, Pro-53 to Asp-58.	H0581: 1 and L0731: 1.			
HWAAAL70	757035	6979		3 - 443	16731			H0581: 1 and L0741: 1.			

HWAAl41	712141	6980	117 - 383	16732	Arg-18 to Phe-32.	H0581: 1 and L0748: 1.	
HWAAl60	751037	6981	2 - 226	16733		H0581: 1 and L0759: 1.	
HWAAlE31	841973	6982	105 - 248	16734	Arg-1 to Phe-9, Arg-23 to Gly-31.	H0581: 1, L0766: 1 and L0599: 1.	
HWAAB06	935131	6983	181 - 429	16735	Ser-4 to Ala-12, His-21 to Leu-27, Pro-30 to Glu-35.	L0452: 1 and H0581: 1.	
HUUDR34	944903	6984	2 - 658	16736	Lys-6 to Met-14, Lys-60 to Leu-65, Asp-71 to Lys-76, Arg-78 to Ser-88, Pro-96 to His-101, Glu-109 to Glu-123, Thr-138 to Ala-144, Arg-173 to Asp-180.	L0462: 2, H0656: 1 and L0617: 1.	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HUUCS12	969325	6985	403 - 687	16737	Ser-6 to Pro-13.	L0748: 3 and H0656: 1.	
HUUCJ02	940813	6986	594 - 121	16738	Gly-11 to Ile-17, Gln-57 to Gly-64.	H0656: 1 and L0163: 1.	
HUJDJ03	922441	6987	189 - 578	16739	Arg-54 to Ser-61, Pro-79 to Ser-90.	L0523: 2 and H0650: 1.	
HUJDE05	967231	6988	21 - 569	16740	Lys-2 to Ile-11, Asp-76 to Gly-83.	H0650: 1 and L0758: 1.	5q31.1  131400, 147061, 147575, 147575, 147575, 153455, 159000, 181460, 600807, 601596, 602089
HUJCN12	969331	6989	316 - 465	16741		H0650: 1 and L0142: 1.	
HUJBQ04	926196	6990	1 - 120	16742		H0650: 1	
HUJBP01	914512	6991	1 - 330	16743		H0650: 1	
HTYSK94	501001	6992	19 - 285	16744	Arg-28 to Gly-36, Pro-73 to Tyr-80.	H0116: 1	
HTYSK65	500999	6993	126 - 338	16745	His-45 to Tyr-50.	H0116: 1	
HTYSK23	575458	6994	112 - 258	16746		H0116: 1	
HTYND11	965061	6995	93 - 311	16747		L0748: 1 and S0452: 1.	
HTYNC04	926906	6996	167 - 66	16748	Leu-16 to Asn-31.	L0021: 1, L0779: 1 and S0452: 1	

HTYAA83	537277	6997	424 - 185	16749	Ala-4 to Gly-13.	H0058: 1	
HTXSV06	933377	6998	267 - 461	16750	Gln-20 to Gln-26.	H0556: 1 and L0367: 1.	
HTXSH08	957886	6999	266 - 463	16751		L0749: 4, L0748: 2, L0777: 2, H0556: 1 and L0471: 1.	
HTXSC11	965536	7000	168 - 416	16752	Lys-28 to Met-34, Glu-40 to Ile-45.	H0556: 1	
HTXSA04	926338	7001	174 - 413	16753		H0556: 1, L0783: 1 and L0809: 1.	
HTXRS08	957919	7002	1 - 183	16754	Pro-8 to Arg-19.	H0556: 1 and L0366: 1.	
HTXRA02	918089	7003	2 - 205	16755	Pro-7 to Gly-17.	H0556: 1, L0748: 1 and L0780: 1.	
HTXQS11	965084	7004	1 - 447	16756	Val-20 to Ser-37, Asp-110 to Arg-125.	H0556: 1, L0643: 1 and L0749: 1.	
HTXQO07	952064	7005	1 - 231	16757		H0556: 1 and L0749: 1.	
HTXQM71	869147	7006	192 - 425	16758	Leu-50 to Ile-55.	H0556: 1 and L0766: 1.	
HTXQM07	952067	7007	311 - 445	16759		H0556: 1 and L0805: 1.	
HTXPX72	916162	7008	132 - 458	16760		H0556: 1 and L0748: 1.	
HTXPV03	922905	7009	416 - 664	16761		H0556: 1 and L0745: 1.	
HTXOR95	869249	7010	380 - 592	16762		H0556: 1 and L0748: 1.	
HTXOO15	869261	7011	55 - 273	16763	Pro-49 to Thr-55.	AR089: 1, AR061: 0 H0556: 1 and L0752: 1.	
HTXOO12	872368	7012	30 - 395	16764		H0556: 1 and L0761: 1.	12
HTXOK51	869265	7013	147 - 527	16765	Ser-76 to Gly-82, Gly-89 to Thr-97.	L0362: 2 and H0556: 1.	
HTXNJ60	869299	7014	354 - 677	16766	Pro-42 to Arg-47.	H0556: 1 and L0766: 1.	
HTXNG04	926992	7015	48 - 557	16767	Pro-20 to Ala-25, Lys-53 to Arg-63, Pro-80 to Gly-89, Ser-139 to Asp-156.	L0749: 5, L0748: 3 and H0556: 1.	
HTXNF11	869300	7016	309 - 593	16768		H0556: 1 and L0748: 1.	
HTXNA19	933848	7017	562 - 792	16769		H0556: 1 and L0439: 1.	
HTXNZ01	915250	7018	107 - 223	16770		H0556: 1 and L0562: 1.	
HTXMU37	948611	7019	1 - 204	16771		L0748: 2 and H0556: 1.	
HTXMR30	869312	7020	332 - 577	16772		L0758: 2 and H0556: 1.	
HTXMJ82	841875	7021	2 - 424	16773	Arg-15 to Ser-22,	H0556: 1 and L0596: 1.	

HTXMC72	875290	7022	127 - 399	16774	Ala-30 to Leu-37, Pro-44 to Lys-51, Leu-53 to Arg-65, Pro-123 to Trp-132.			
HTXLS08	958357	7023	1 - 1152	16775	Asp-1 to Gly-8, Leu-14 to Ser-20.		H0556: 1 and L0748: 1. L0766: 9, L0761: 8, L0779: 3, L0809: 2, L0752: 2, H0556: 1, L0772: 1, L0794: 1 and L0745: 1.	
HTXLN70	756630	7024	409 - 663	16776			H0556: 1 and L0748: 1.	
HTXLI10	963602	7025	235 - 471	16777			H0556: 1 and L0794: 1.	
HTXKP30	487401	7026	138 - 335	16778			H0556: 1	
	494070	9612	164 - 3	19364	Asp-13 to Phe-19, Arg-46 to Leu-54.			
HTXKN65	869345	7027	71 - 241	16779	Met-1 to Asn-8, Gln-19 to Ser-24.		H0556: 1 and L0369: 1.	
HTXKM37	869347	7028	24 - 236	16780	Lys-8 to Pro-19.		H0556: 1 and L0768: 1.	
HTXKM24	677101	7029	117 - 284	16781	Lys-6 to Thr-11.		H0556: 1 and L0748: 1.	
HTXKK96	796330	7030	321 - 515	16782	Gly-51 to Pro-65.		H0556: 1 and L0596: 1.	
HTXKK31	697838	7031	208 - 447	16783	Ser-74 to Ile-80.		H0556: 1 and L0756: 1.	
HTXKF02	919683	7032	3 - 251	16784	Leu-2 to Ser-14, Ser-26 to Ala-34, Pro-43 to Gly-49.		H0556: 1, L0743: 1 and L0744: 1.	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HTXKC64	746471	7033	203 - 481	16785	Ile-9 to Asn-18.		H0556: 1 and L0748: 1.	
HTXJX77	870446	7034	94 - 606	16786	Gln-25 to Thr-30.		H0556: 1 and L0596: 1.	

HTXJR61	741746	7035	941 - 693	16787	Ser-45 to Lys-54. Lys-1 to Leu-6.	L0439: 3, H0556: 1 and L0747: 1.		
HTXJP17	663123	7036	77 - 334	16788	Arg-24 to Gly-32, Asp-48 to Ser-55, Pro-58 to Glu-64, Glu-69 to His-86.	L0747: 3, L0758: 2, H0556: 1 and L0515: 1.		
HTXJO80	871594	7037	329 - 454	16789		L0748: 2, H0556: 1, L0637: 1 and L0749: 1.		
HTXJO78	773508	7038	145 - 282	16790	Leu-7 to Gly-18, Trp-20 to Asn-29.	H0556: 1 and L0755: 1.		
HTXJN39	566290	7039	25 - 240	16791	Ala-4 to Glu-9, Asp-31 to Ser-36, Asp-44 to Gln-53.	AR054: 19, AR050: 2, AR051: 1		
HTXJK20	423763	7040	122 - 349	16792	Lys-1 to Arg-14, Thr-38 to Cys-50.	H0556: 1 and L0592: 1. H0556: 1 and L0591: 1.		
HTXJC08	957757	7041	737 - 450	16793		AR054: 16, AR050: 10, AR051: 2 H0556: 1		
	972481	9613	410 - 727	19365	Gly-23 to Arg-29, Gly-33 to Ser-42, His-51 to Thr-56, Pro-67 to Ser-79, Ser-84 to Arg-91, Pro-100 to Gly-106.			
HTXJA76	767696	7042	222 - 386	16794	Ser-6 to Thr-12.	H0556: 1		
HTXJA32	699152	7043	54 - 344	16795	Ser-2 to Met-7, Pro-18 to Pro-25.	L0599: 2 and H0556: 1.		
HTXGH41	712566	7044	4 - 246	16796	Pro-3 to Gln-8, Val-35 to Asp-40.	H0265: 1 and L0749: 1.		
HTXGE85	783418	7045	1 - 462	16797		L0743: 3, L0744: 2 and H0265: 1.		
HTXFR89	790276	7046	2 - 292	16798	Arg-4 to Cys-16, Pro-18 to Pro-38, Asn-86 to Lys-92.	H0265: 1 and L0750: 1.		
HTXFN90	537392	7047	87 - 374	16799	Gly-26 to Leu-31,	H0265: 1		

HTXFEN73	824543	7048				Gln-35 to Gly-41.				
HTXFEN63	745316	7049	82 - 285	16800					H0265: 1	
HTXFEN53	537391	7050	96 - 308	16801					H0265: 1	
HTXFEN23	537393	7051	42 - 305	16802					H0265: 1	
HTXFH43	537397	7052	37 - 207	16803					H0265: 1	
			28 - 240	16804		Pro-7 to Asn-13, Pro-19 to Tyr-26, Arg-48 to Phe-55.			H0265: 1	
HTXFH20	537398	7053	17 - 217	16805		Lys-11 to Cys-21, Thr-41 to Pro-47, Arg-55 to Thr-60.			H0265: 1	
HTXFG29	689833	7054	79 - 210	16806					H0265: 1	
HTXFF96	796309	7055	543 - 379	16807		Trp-8 to Ala-13, Gly-22 to Ser-28, Met-38 to Pro-45.			H0265: 1	
	796314	9614	133 - 321	19366		Lys-7 to Gly-14, His-16 to Asp-22.				
HTXFF93	934438	7056	370 - 558	16808		Arg-6 to Ser-11, Val-36 to Ser-43.			H0265: 1 and L0748: 1.	
HTXEY18	869406	7057	132 - 392	16809		Pro-28 to Gly-34.			H0265: 1	
HTXEX83	780277	7058	1 - 342	16810					H0265: 1 and L0748: 1.	
HTXEE90	789161	7059	120 - 368	16811		Ser-8 to Trp-19, Glu-75 to Pro-83.			L0740: 2 and H0265: 1.	
HTXEC96	796561	7060	260 - 132	16812					H0265: 1 and L0748: 1.	
HTXEA45	723401	7061	2 - 301	16813		Pro-2 to Ser-11, Arg-36 to Ser-51.			H0265: 1 and L0596: 1.	
HTXDZ56	733641	7062	155 - 424	16814		Tyr-39 to Tyr-45.			L0748: 2 and H0265: 1.	
HTXDW32	699559	7063	810 - 1070	16815		Ser-58 to Ile-66.			H0265: 1 and L0749: 1.	
HTXDJ77	772473	7064	2 - 202	16816		Thr-13 to Thr-19.			H0265: 1 and L0750: 1.	
HTXDD24	888612	7065	1 - 276	16817					AR054: 15, AR050: 4, AR051: 3 H0265: 1	
HTXCW50	724650	7066	3 - 422	16818		Glu-1 to Asp-9, Lys-29 to Lys-46.			L0809: 4, L0803: 2, L0777: 2, H0265: 1, L0774: 1, L0651: 1, L0749: 1 and L0780: 1.	

HTXCS84	783262	7067	5 - 82	16819	Glu-18 to Ala-24.	H0265: 1	
HTXBT88	529663	7068	17 - 286	16820	Val-1 to Ser-12, Gly-14 to Thr-22, Arg-63 to Ala-71.	H0265: 1	
HTXAW03	921906	7069	92 - 376	16821		H0265: 1, L0769: 1, L0509: 1, L0439: 1, L0747: 1 and L0755: 1.	
HTXAK96	796612	7070	360 - 485	16822	Lys-1 to Trp-8.	H0265: 1 and L0748: 1.	
HTXAJ34	707050	7071	196 - 318	16823	Tyr-13 to Phe-18.	H0265: 1 and L0754: 1.	
HTWLI77	839177	7072	1 - 411	16824	Pro-30 to Pro-38.	H0576: 1	
HTWLF58	869478	7073	131 - 433	16825	Pro-51 to Gly-58.	L0766: 1, H0576: 1 and L0779: 1.	
HTWLD61	741610	7074	3 - 218	16826	Ala-6 to Met-16, Pro-39 to Lys-45.	H0576: 1	
HTWLD10	964195	7075	85 - 189	16827		L0803: 1 and H0576: 1.	
HTWLC51	725533	7076	94 - 201	16828		L0748: 2, L0766: 1, H0576: 1 and L0779: 1.	
HTWKZ86	785318	7077	121 - 279	16829	Lys-15 to Ser-20, Glu-28 to Trp-36, Lys-38 to Lys-49.	H0576: 1	
HTWKZ46	718872	7078	160 - 354	16830	Ala-50 to Asn-63.	H0576: 1	
HTWKZ35	494833	7079	2 - 127	16831		H0576: 1	
HTWKZ28	686254	7080	177 - 395	16832	Ser-1 to Val-10, Gln-20 to Ser-29, Pro-54 to Cys-67.	H0576: 1	
HTWKZ27	812689	7081	142 - 303	16833		H0576: 1	
HTWKZ15	659934	7082	233 - 367	16834	Leu-7 to Leu-13, Pro-15 to Cys-20.	H0576: 1	
HTWKT41	712142	7083	25 - 189	16835	Trp-14 to Ser-25.	L0766: 1, H0576: 1 and L0754: 1.	
HTWKF34	703863	7084	174 - 320	16836		L0748: 2 and H0576: 1.	
HTWKB07	952841	7085	91 - 321	16837	Asp-25 to Lys-30.	L0763: 1 and H0576: 1.	
HTWJY36	708338	7086	12 - 251	16838	Pro-27 to Ser-36, Gly-73 to Leu-80.	L0761: 2, L0754: 2, L0766: 1, H0576: 1, L0779: 1, L0780: 1 and L0755: 1.	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841



HTWJH08	790185	7087	85 - 207	16839	Gly-3 to Cys-12, Lys-33 to Lys-41.	AR061: 1, AR089: 1 H0576: 1		
	846554	9615	85 - 207	19367	Gly-3 to Cys-12, Lys-33 to Lys-41.			
HTWJF89	805706	7088	45 - 323	16840	Glu-1 to Ser-9, Ser-30 to Ala-36, Gln-61 to Tyr-66.	H0576: 1 and L0748: 1.		
HTWJF50	911448	7089	916 - 1434	16841	Thr-12 to Trp-20, Pro-29 to Arg-35, Leu-51 to Arg-58, Arg-100 to Arg-108, Cys-120 to Arg-125, Pro-150 to Arg-163.	L0766: 1 and H0576: 1.		
HTWJA79	559919	7090	2 - 226	16842	Leu-38 to Lys-43, Ser-52 to Cys-58.	H0576: 1		
HTWFQ19	586124	7091	2 - 196	16843		AR054: 180, AR050: 146, AR051: 125, AR089: 10, AR061: 4 H0436: 1		
HTWFM90	582285	7092	59 - 187	16844	Leu-16 to Ser-29.	H0436: 1		
HTWFM89	786805	7093	110 - 301	16845	Gly-1 to Tyr-13, Arg-26 to Lys-39.	H0436: 1		
HTWFM79	841983	7094	19 - 186	16846	Ser-43 to Tyr-49.	L0766: 1 and H0436: 1.		
HTWFM71	760303	7095	18 - 242	16847	Leu-7 to Leu-14, Pro-16 to Glu-23, Thr-36 to Glu-51.	H0436: 1		
HTWFM48	721587	7096	1 - 114	16848	Val-14 to Leu-27.	H0436: 1		
HTWFJ71	869491	7097	346 - 609	16849	Gly-38 to Glu-48.	L0770: 1 and H0436: 1.		
HTWFH75	767251	7098	352 - 498	16850		H0436: 1 and L0748: 1.		
HTWFH73	761686	7099	239 - 460	16851		H0436: 1 and L0777: 1.		
HTWFH42	713667	7100	395 - 523	16852		H0436: 1, L0748: 1 and L0749: 1.		
HTWFG29	800193	7101	1 - 93	16853	Phe-13 to Glu-20.	H0436: 1		
HTWFD63	745010	7102	1 - 183	16854	Lys-21 to Lys-27, Arg-32 to Ser-37.	L0748: 2 and H0436: 1.		
HTWEY89	864553	7103	2 - 229	16855	Met-50 to Glu-63,	H0436: 1 and L0740: 1.	8q13	122560, 214400.

HTWEO90	788859	7104	316 - 522	16856	Ser-70 to Pro-76.	L0745: 9 and H0436: 1.	602476
HTWEJ74	765512	7105	64 - 228	16857		H0436: 1 and L0756: 1.	
HTWEH76	876853	7106	319 - 639	16858	Val-1 to Thr-16.	H0436: 1 and L0601: 1.	
HTWEC75	767264	7107	426 - 581	16859	Lys-1 to Glu-10, Leu-15 to Leu-22, Glu-35 to Asn-41.	L0745: 4, L0750: 2 and H0436: 1.	
HTWDR91	869526	7108	130 - 447	16860		H0436: 1	
HTWDO06	935644	7109	211 - 345	16861	Leu-23 to Gly-32.	L0809: 1 and H0436: 1.	
HTWDK68	753086	7110	253 - 399	16862	Met-36 to Asn-43.	H0436: 1 and L0608: 1.	
HTWDJ42	713869	7111	105 - 269	16863	Gly-5 to His-13, Lys-22 to Glu-27.	H0436: 1 and L0748: 1.	
HTWDI49	723047	7112	138 - 281	16864	Ser-24 to Trp-32.	L0745: 2, H0436: 1 and L0780: 1.	
HTWDE70	844831	7113	188 - 358	16865		H0436: 1	
	859421	9616	123 - 239	19368			
HTWCL86	575978	7114	134 - 229	16866		H0436: 1	
HTWCJ08	959591	7115	201 - 413	16867	Asn-22 to Asp-27, Leu-31 to Lys-36.	H0436: 1 and L0758: 1.	
HTWCG06	935642	7116	215 - 319	16868	Thr-1 to Pro-9.	L0766: 1 and H0436: 1.	
HTWCD06	935646	7117	387 - 542	16869		L0517: 1 and H0436: 1.	
HTWCB69	729244	7118	27 - 290	16870	Gly-32 to Gly-38, Gly-41 to Gln-53, His-58 to Phe-69.	H0436: 1 and L0748: 1.	
HTWBW72	772117	7119	244 - 2	16871		H0436: 1 and L0439: 1.	
HTWBV33	594496	7120	1053 - 769	16872		H0436: 1	
	701754	9617	344 - 189	19369			
	813291	9618	299 - 517	19370	Pro-37 to His-49, Thr-56 to Lys-64.		
HTWBV03	869549	7121	483 - 650	16873		L0766: 5, H0436: 1 and L0740: 1.	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373

HTWBT62	742388	7122	26 - 208	16874	Glu-6 to Lys-13, Thr-29 to Glu-39, Arg-48 to Gln-59.	H0436: 1 and L0748: 1.	
HTWBP67	751752	7123	102 - 221	16875		H0436: 1 and L0747: 1.	
HTWBL08	959619	7124	221 - 418	16876	Asn-6 to Ser-15.	H0436: 1 and L0747: 1.	
HTWBI04	922175	7125	132 - 362	16877	Pro-12 to Gly-20.	L0598: 1 and H0436: 1.	
HTWBF27	683546	7126	82 - 360	16878		H0436: 1 and L0752: 1.	
HTWBE63	745194	7127	181 - 309	16879	Pro-1 to Gly-12.	H0436: 1 and L0753: 1.	
HTWBD84	783120	7128	232 - 477	16880	Leu-61 to His-66.	H0436: 1 and L0748: 1.	
HTWBD61	604245	7129	285 - 569	16881		H0436: 1	
	824129	9619	418 - 167	19371	Ala-49 to Glu-56.		
HTWAM49	722141	7130	235 - 444	16882		H0187: 1 and L0748: 1.	
HTWAM48	518825	7131	33 - 308	16883	Ser-59 to Glu-71.	L0605: 2 and H0187: 1.	
HTWAM25	677506	7132	744 - 289	16884	Thr-1 to Lys-11.	L0758: 5, L0794: 4, L0803: 3, L0744: 2, L0756: 2, L0435: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0187: 1, L0439: 1, L0751: 1, L0779: 1 and L0591: 1.	
HTWAJ11	967845	7133	261 - 443	16885	His-21 to Pro-27.	L0759: 2, L0657: 1 and H0187: 1.	
HTWAE31	725127	7134	3 - 191	16886		H0187: 1 and L0439: 1.	
HTWAB85	522346	7135	89 - 307	16887		H0187: 1	
HTWAB65	533745	7136	151 - 429	16888	Tyr-18 to Lys-31, Ser-50 to Arg-59.	H0187: 1	
HTWAB57	735153	7137	24 - 191	16889	Lys-15 to Ile-20.	H0187: 1	
HTWAB46	522817	7138	87 - 218	16890		H0187: 1	
HTWAB42	714291	7139	23 - 217	16891	Ser-1 to Asp-10, Lys-36 to Glu-43.	H0187: 1	
HTWAB32	524291	7140	187 - 321	16892	Leu-7 to Leu-13, Pro-15 to Cys-20, Pro-23 to Cys-28.	H0187: 1	
HTWAB27	522796	7141	54 - 134	16893		H0187: 1	
HTWAB18	522794	7142	124 - 207	16894		H0187: 1	
HTWAA90	789271	7143	196 - 426	16895	Val-3 to Thr-10,	H0187: 1	

HTWAA79	869563	7144	214 - 405	16896	Glu-31 to Leu-40.	H0187: 1	
HTWAA42	522603	7145	2 - 85	16897	Ser-20 to Leu-28.	H0187: 1	
HTWAA32	522797	7146	281 - 439	16898		H0187: 1	
HTWAA31	915276	7147	77 - 337	16899		H0187: 1	
HTWAA22	425133	7148	48 - 287	16900	Glu-39 to Thr-47.	H0187: 1	
HTWAA17	667166	7149	46 - 276	16901	Ser-17 to Lys-32.	H0187: 1	
HTUAE10	968597	7150	237 - 404	16902		H0185: 1, L0509: 1, L0607: 1 and L0493: 1.	
HTUAA93	522950	7151	1 - 267	16903		H0185: 1	
HTUAA79	773978	7152	196 - 360	16904		H0185: 1	
HTUAA63	522080	7153	3 - 134	16905		H0185: 1	
HTUAA59	556958	7154	151 - 318	16906	Pro-33 to Ser-38.	H0185: 1	
HTUAA55	522805	7155	74 - 226	16907	Thr-4 to Asp-10.	H0185: 1	
HTUAA51	725949	7156	216 - 317	16908	Leu-5 to Phe-11.	L0740: 2 and H0185: 1.	
HTUAA45	526606	7157	3 - 203	16909	Gly-39 to Ile-46.	H0185: 1	
HTUAA42	694535	7158	38 - 115	16910	Gln-15 to Cys-23.	H0185: 1	
HTUAA32	522807	7159	95 - 187	16911	Gln-15 to Phe-20.	H0185: 1	
HTUAA25	575308	7160	168 - 452	16912		L0748: 2 and H0185: 1.	
HTUAA23	575319	7161	165 - 371	16913	Arg-6 to Leu-15, Leu-23 to Gly-28.	H0185: 1	
HTUAA21	575312	7162	2 - 343	16914		H0185: 1	
HTUAA11	967919	7163	57 - 173	16915		H0185: 1	
HTUAA06	960761	7164	229 - 384	16916	Asp-1 to Glu-9, Gly-35 to Gly-42.	H0185: 1	
HTUAA02	921277	7165	178 - 2	16917	Ser-1 to Thr-9, Glu-16 to Leu-22.	H0185: 1	
HTSHI55	576030	7166	129 - 233	16918	His-3 to Tyr-10, Lys-29 to Asn-34.	H0087: 1	
HTSHC81	778008	7167	224 - 370	16919		H0087: 1 and L0602: 1.	14q32.3-qter
HTSHB38	709445	7168	3 - 236	16920	Pro-10 to Ala-16.	L0589: 2 and H0087: 1.	
HTSHB18	666569	7169	20 - 142	16921	Glu-18 to Lys-23, Ser-36 to Arg-41.	H0087: 1, L0438: 1, L0740: 1 and L0758: 1.	
HTSGZ92	975082	7170	1 - 297	16922	Gln-3 to Thr-9.	H0087: 1 and L0809: 1.	
HTSGQ88	576077	7171	3 - 245	16923	Glu-24 to Arg-38.	H0087: 1	

HTSGQ42	576078	7172	1 - 282	16924	Ala-69 to Arg-81. Gly-1 to Glu-6, Pro-15 to Pro-23, Ser-29 to Glu-46, Leu-48 to Asp-66.	H0087: 1		
HTSGM53	728289	7173	199 - 420	16925	Pro-21 to Lys-28.	L0748: 2 and H0087: 1.		
HTSGL89	787027	7174	336 - 539	16926		H0087: 1 and L0753: 1.		
HTSFU94	793056	7175	1 - 267	16927	Asp-64 to Ser-76, Thr-78 to Ala-86.	L0747: 3, H0087: 1 and L0731: 1.		
HTSFF64	747003	7176	2 - 412	16928	Ala-1 to Pro-9, Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	H0087: 1, L0744: 1 and L0731: 1.		
HTSEX79	524280	7177	20 - 253	16929	Gln-16 to Phe-30.	H0087: 1		
HTSEW02	920963	7178	85 - 264	16930	Ser-53 to Phe-59.	L0803: 3, H0087: 1, L0754: 1 and L0749: 1.		
HTSAA20	836021	7179	156 - 350	16931		H0087: 1 and L0748: 1.		
HTOJZ05	869900	7180	2 - 316	16932		H0264: 1		
	869903	9620	472 - 768	19372	Pro-7 to Pro-17.			
HTOJV25	456941	7181	2 - 199	16933	Asn-1 to Ile-11.	H0264: 1		
HTOJT60	740599	7182	185 - 304	16934		H0264: 1 and L0754: 1.		
HTOJN69	869925	7183	2 - 187	16935		H0264: 1 and L0748: 1.		
HTOJM95	795719	7184	506 - 315	16936		H0264: 1		
	796022	9621	66 - 260	19373				
HTOJL36	866492	7185	327 - 662	16937	Ser-9 to His-14, Gly-40 to Thr-46.	H0264: 1		
HTOJF70	457041	7186	208 - 408	16938	Glu-30 to Asp-36.	H0264: 1 and L0748: 1.	22q13.31	250100, 250800, 250800
HTOJB05	932423	7187	1 - 258	16939	Ser-24 to Asp-31.	H0264: 1, L0748: 1 and L0745: 1.		
HTOIZ49	586144	7188	28 - 219	16940		AR054: 35, AR050: 33, AR051: 28		
						H0264: 1		
HTOIX57	735004	7189	156 - 341	16941	Asn-36 to His-48.	L0748: 2 and H0264: 1.		
HTOIQ30	584928	7190	252 - 407	16942		H0264: 1 and L0749: 1.		
HTOIL74	765840	7191	1 - 384	16943	Thr-53 to Pro-58,	H0264: 1 and L0747: 1.		

							His-103 to Leu-109, Gln-112 to Trp-126.			
HTOIK90	557829	7192	130 - 273	16944			Gln-14 to Tyr-22.		H0264: 1	
HTOIJ84	783212	7193	342 - 500	16945			Gln-1 to Arg-8.		L0754: 2 and H0264: 1.	
HTOIH68	753595	7194	201 - 371	16946			Pro-11 to Gly-16.		H0264: 1 and L0605: 1.	
HTOIH09	961168	7195	59 - 190	16947					S0005: 1 and H0264: 1.	
HTOIF08	959992	7196	162 - 488	16948			Pro-1 to Arg-10.		L0459: 1, H0264: 1, L0744: 1 and L0752: 1.	
HTOLA89	787088	7197	491 - 252	16949			Lys-1 to Lys-7.		H0264: 1 and L0748: 1.	
HTOLA82	844319	7198	41 - 286	16950			Arg-44 to Gly-59.		AR061: 4, AR089: 2 H0264: 1 and L0754: 1.	
HTOHZ59	869950	7199	26 - 355	16951			Ser-10 to Glu-16, Asp-28 to Pro-36.		H0264: 1, L0517: 1 and L0596: 1.	
HTOHX62	537358	7200	3 - 92	16952			Glu-1 to Ile-15.		AR051: 11, AR054: 1, AR050: 1 H0264: 1	
HTOHT93	791459	7201	162 - 440	16953			Pro-64 to Thr-70.		H0264: 1 and L0366: 1.	
HTOHR03	924976	7202	6 - 329	16954			Arg-13 to Gln-21, Phe-25 to Ser-33, Pro-85 to Lys-92.		L0794: 2 and H0264: 1.	
HTOHN89	956264	7203	167 - 427	16955			Asn-42 to Lys-54.		H0264: 1, L0748: 1 and L0749: 1.	
HTOHI14	659280	7204	119 - 478	16956					H0264: 1	
HTOHH78	963216	7205	544 - 888	16957			Thr-4 to Cys-15, Glu-31 to Arg-36, Gln-68 to Trp-80, Ser-98 to Glu-105.		L0601: 2 and H0264: 1.	
HTOHG68	964961	7206	1 - 183	16958			Ser-10 to Pro-19, Thr-23 to Arg-35, Asn-56 to Arg-61.		H0264: 1 and L0753: 1.	
HTOGU88	558488	7207	100 - 285	16959					H0264: 1	
HTOGU78	529798	7208	52 - 138	16960					H0264: 1	
HTOGU77	523533	7209	40 - 132	16961			Ser-1 to Ser-7.		H0264: 1	
HTOGC91	790438	7210	308 - 463	16962					H0264: 1 and L0439: 1.	
HTOFV57	529614	7211	35 - 184	16963			Asn-1 to Glu-14.		H0264: 1	
HTOFV08	960203	7212	1 - 150	16964			Ala-11 to Tyr-16.		H0264: 1	

HTOFU55	732454	7213	77 - 196	16965	Lys-43 to Pro-50.	H0264: 1 and L0749: 1.
HTOFT20	527938	7214	1 - 60	16966	Glu-9 to Tyr-16.	H0264: 1
HTOFS74	765918	7215	46 - 174	16967	Pro-15 to Leu-20.	H0264: 1 and L0599: 1.
HTOFO18	911756	7216	1179 - 1376	16968	Pro-1 to Trp-13.	H0264: 1
HTOFC06	911956	9622	980 - 1156	19374	Asn-25 to Leu-34.	H0264: 1 and L0803: 1.
HTOEX28	960546	7217	84 - 266	16969	Arg-15 to Gly-22.	H0264: 1 and L0747: 1.
HTOEY91	936543	7218	280 - 513	16970	Pro-11 to Tyr-16,	H0264: 1
	509938	7219	268 - 38	16971	Thr-24 to Ser-35.	
HTOET61	534071	9623	581 - 408	19375	Thr-31 to Gly-36.	H0264: 1 and L0766: 1.
HTOEE28	742164	7220	323 - 445	16972		H0264: 1
	685375	7221	83 - 259	16973		
	869988	9624	306 - 530	19376		
HTODM08	960113	7222	2 - 400	16974	Leu-12 to Phe-18.	H0264: 1 and L0755: 1.
HTODL10	968395	7223	1 - 282	16975	Ser-4 to Glu-14,	H0264: 1 and L0601: 1.
HTODD59	738532	7224	287 - 400	16976	Gln-16 to Ala-24.	H0264: 1 and L0754: 1.
HTODA31	698400	7225	56 - 436	16977	Pro-3 to Gln-11.	L0777: 2 and H0264: 1.
					Gln-4 to Ala-19,	
					Ser-63 to Asn-80,	
					Glu-104 to Ile-110,	
					Pro-121 to Lys-127.	
HTOCK85	521944	7226	1 - 201	16978		H0272: 1
HTOCK73	870004	7227	103 - 351	16979	Arg-12 to Tyr-19,	H0272: 1
					Tyr-27 to Thr-33,	
					Asn-62 to Ser-71.	
HTOCK14	529958	7228	2 - 298	16980		H0272: 1
HTOCK03	925368	7229	2 - 124	16981		H0272: 1
HTOCA55	732469	7230	20 - 148	16982	Phe-21 to Lys-33.	H0272: 1
HTOBE60	742315	7231	281 - 469	16983		H0272: 1 and L0748: 1.
HTOBC63	530283	7232	2 - 190	16984	Ile-1 to Asn-6,	H0272: 1
					Gly-10 to Lys-29.	
HTOBC26	870011	7233	1 - 159	16985		H0272: 1
HTOBA33	965151	7234	295 - 525	16986		L0439: 2, H0272: 1 and L0766: 1

HTOAT88	530183	7235	268 - 411	16987			H0264: 1	
HTOAT81	530185	7236	1 - 231	16988			H0264: 1	
HTOAT68	530187	7237	11 - 187	16989	Arg-1 to Gln-16.		H0264: 1	
HTOAT66	530188	7238	62 - 208	16990			H0264: 1	
HTOAT63	523754	7239	122 - 292	16991	Ser-1 to Trp-6.		H0264: 1	
HTOAT57	870017	7240	19 - 126	16992	Glu-20 to Arg-27.		H0264: 1	
HTOAT50	723595	7241	3 - 176	16993			H0264: 1	
HTOAT43	529840	7242	52 - 135	16994			H0264: 1	
HTOAT35	521914	7243	2 - 100	16995	Asn-1 to Thr-15.		H0264: 1	
HTOAT28	530191	7244	180 - 326	16996	Lys-7 to Gly-15.		H0264: 1	
HTOAT27	682115	7245	101 - 295	16997	Phe-5 to Ala-10, Glu-12 to Asn-17, Val-21 to Asp-35, Ile-58 to Asp-64.		H0264: 1	
HTOAT06	960581	7246	2 - 241	16998			H0264: 1	
HTOAO63	745545	7247	440 - 634	16999	Arg-1 to Ile-9.		H0264: 1 and L0748: 1.	
HTOAO01	921744	7248	1 - 165	17000			H0264: 1 and L0754: 1.	
HTOAM08	960122	7249	23 - 181	17001	Ser-3 to Thr-11.		H0264: 1 and L0758: 1.	
HTOAL84	783261	7250	2 - 118	17002	Ser-20 to Thr-27.		H0264: 1 and L0748: 1.	
HTOAK39	709579	7251	109 - 435	17003	Pro-83 to Ser-89.		H0264: 1 and L0581: 1.	
HTOAI51	529553	7252	44 - 193	17004			H0264: 1	
HTOAI25	529556	7253	1 - 105	17005			H0264: 1	
HTOAI15	529557	7254	61 - 261	17006			H0264: 1	
HTOAD05	932732	7255	261 - 94	17007			H0264: 1 and L0608: 1.	
HTOAA73	764707	7256	89 - 217	17008			H0264: 1 and L0599: 1.	
HTJNX95	795376	7257	1 - 465	17009	Leu-29 to Lys-36.		H0488: 1 and L0439: 1.	
HTJNT65	771995	7258	195 - 311	17010	Ala-1 to Thr-7.		L0731: 2 and H0488: 1.	
HTJNF11	966217	7259	232 - 582	17011	Ser-5 to Asp-11, Arg-18 to Asn-27, Pro-33 to Glu-39, Ser-44 to Trp-50.		H0488: 1 and L0766: 1.	
HTJMZ89	973076	7260	2 - 181	17012			H0488: 1	
HTJMU86	870312	7261	268 - 408	17013	Ser-1 to Ala-7.		H0488: 1 and L0766: 1.	
HTJMQ90	974496	7262	98 - 223	17014			H0488: 1	
HTJML71	759890	7263	1 - 261	17015	Phe-11 to Thr-21.		H0488: 1 and L0766: 1.	



HTJMF56	733444	7264	257 - 481	17016	Leu-67 to Ser-75.	H0488: 1 and L0740: 1.		
HTJAE78	773609	7265	177 - 404	17017	Ala-22 to Tyr-28.	H0487: 1		
HTJAD50	724438	7266	149 - 298	17018	Thr-13 to Lys-18.	H0487: 1 and L0748: 1.		
HTHDS68	753137	7267	3 - 230	17019		H0063: 1 and L0748: 1.		
HTHDR27	578830	7268	150 - 344	17020	Pro-27 to Ser-33, Ser-39 to Pro-44.	H0063: 1, L0748: 1 and L0749: 1.		
HTHDQ05	932174	7269	36 - 302	17021		H0063: 1		
HTHDM10	964906	7270	88 - 228	17022	His-16 to Phe-28, Arg-37 to Lys-43.	H0063: 1 and L0769: 1.		
HTHDL30	578894	7271	3 - 314	17023		H0063: 1		
HTHDJ93	792443	7272	170 - 457	17024	Asp-1 to His-6.	L0759: 2 and H0063: 1.		
HTHDF13	490673	7273	381 - 175	17025	Ala-49 to Asn-54.	H0063: 1		
HTHDE83	516372	7274	279 - 413	17026	Ser-5 to Asp-11.	H0063: 1		
	826819	9625	456 - 304	19377				
HTHDC07	953604	7275	327 - 533	17027	Gln-13 to Glu-21.	H0063: 1 and L0764: 1.		
HTHCV69	973309	7276	137 - 343	17028	Pro-28 to Cys-39.	H0063: 1		
HTHCU42	578861	7277	3 - 224	17029	Gln-7 to Arg-15, Ser-22 to Cys-29.	H0063: 1		
HTHCO72	578758	7278	177 - 323	17030		H0063: 1		
HTHCO45	722029	7279	1 - 159	17031	Thr-14 to Gly-22, Ser-40 to Glu-45.	H0063: 1		
HTHCK89	694051	7280	276 - 1	17032	Arg-14 to Thr-27, Leu-36 to Gly-42, Arg-51 to Cys-73, Glu-82 to Arg-92.	H0063: 1, L0657: 1 and L0592: 1.		
	870359	9626	1 - 489	19378	Gln-31 to Trp-36, Arg-61 to Lys-80, Pro-93 to Thr-100.			
	870365	9627	219 - 539	19379	Thr-19 to Gly-24.			
HTHCG74	578839	7281	1 - 87	17033		H0063: 1		
HTHBY73	946168	7282	1 - 360	17034	Asp-38 to Gly-44, Cys-92 to Gly-98, Ala-101 to Trp-106.	AR061: 12, AR089: 9 H0063: 1		
HTHBW81	519640	7283	134 - 283	17035	His-40 to Asn-47.	H0063: 1		

	625209	9628	485 - 147	19380	Glu-10 to Gln-15.			
HTHBW64	746955	7284	318 - 563	17036	Ser-12 to Lys-20, Ala-31 to His-36.	H0063: 1 and L0754: 1.		
HTHBU25	961627	7285	294 - 554	17037	Phe-20 to Ser-26, Pro-47 to Thr-55.	L0439: 3 and H0063: 1.		
HTHBT36	458387	7286	146 - 310	17038	Asn-15 to Gln-27, Ser-41 to Gly-47.	H0063: 1 and L0748: 1.		
HTHBM85	790305	7287	1 - 483	17039	Gly-1 to Arg-7.	H0063: 1 and L0439: 1.	15q24-q25	118485, 231680, 272800, 272800, 272800, 276700, 602685
HTHBM60	739707	7288	58 - 201	17040	Tyr-21 to Ser-33.	H0063: 1 and L0777: 1.		
HTHBK64	573926	7289	181 - 273	17041	Arg-15 to Leu-20, Gly-24 to Arg-31.	H0063: 1		
HTHBK47	526705	7290	46 - 240	17042	Gly-1 to Arg-9, Gln-15 to Gly-26,	H0063: 1		
HTHBK04	925600	7291	2 - 148	17043	Gln-29 to Phe-35.	H0063: 1		
HTHBH32	699557	7292	119 - 589	17044	Thr-7 to Arg-19, Lys-60 to Leu-68, Val-107 to Gln-119.	L0803: 2, L0750: 2, H0063: 1, L0763: 1, L0772: 1 and L0789: 1.		
HTHBG23	410319	7293	3 - 182	17045	Ile-1 to Cys-8, Ser-11 to Leu-22, His-25 to Gln-33.	H0063: 1		
HTHBC07	954440	7294	323 - 213	17046	Ser-9 to Ser-15.	H0063: 1		
HTHBC04	933029	7295	123 - 16	17047		H0063: 1 and L0764: 1.		
HTHAA24	575493	7296	3 - 239	17048	Ser-49 to Asp-54, Lys-56 to Asp-71.	H0062: 1		
HTGGO27	682376	7297	3 - 185	17049	Val-2 to Arg-11.	S0218: 1 and L0754: 1.		
HTGGN71	760059	7298	249 - 428	17050	Phe-1 to Asp-7.	S0218: 1 and L0748: 1.		
HTGGN51	870386	7299	47 - 238	17051		S0218: 1 and L0367: 1.		
HTGFY55	731360	7300	1 - 141	17052	Ala-1 to Ala-7, His-20 to Gly-38.	S0218: 1		
HTGFY05	928205	7301	35 - 145	17053	Leu-7 to His-12.	S0218: 1		
HTGFK70	756534	7302	3 - 131	17054	Gly-7 to Ser-12.	S0218: 1 and L0777: 1.		
HTGEY89	786057	7303	2 - 202	17055	Pro-59 to Trp-67.	S0218: 1		

HTGEY40	711177	7304	76 - 246	17056		S0218: 1		
HTGEX10	963862	7305	301 - 1017	17057	Arg-3 to Ser-9, Arg-11 to Trp-30, Thr-38 to Tyr-49, Thr-101 to Arg-107, Gly-139 to Tyr-146, Tyr-215 to Lys-223.	AR089: 43, AR061: 9 S0218: 1 and L0623: 1.		
HTGEX03	923445	7306	135 - 317	17058	Glu-1 to Arg-10, Ser-26 to Gly-39.	S0218: 1 and L0605: 1.		
HTGEU48	721660	7307	258 - 425	17059	Asp-48 to Phe-55.	S0218: 1 and L0599: 1.		
HTGEG89	786665	7308	28 - 228	17060		S0218: 1 and L0748: 1.		
HTGEG17	662369	7309	254 - 508	17061	Ser-68 to Gly-85.	L0766: 3, S0218: 1, L0789: 1 and L0748: 1.		
HTGED13	656504	7310	119 - 244	17062	Ser-32 to Lys-42.	S0218: 1 and L0748: 1.		
HTGEA37	908606	7311	3 - 122	17063	Pro-21 to Gly-31.	S0218: 1 and L0758: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403
HTGDX37	708877	7312	86 - 466	17064		L0748: 2, S0134: 1 and L0749: 1.		
HTGDX10	963854	7313	86 - 316	17065	Ser-8 to Arg-14.	S0134: 1 and L0517: 1.		
HTGDV61	741381	7314	297 - 515	17066		S0134: 1, L0766: 1 and L0749: 1.		
HTGDV52	796065	7315	104 - 364	17067	Asn-13 to Leu-18, Pro-68 to Ser-73.	L0747: 2, S0134: 1, L0439: 1, L0749: 1 and L0756: 1.		
HTGCQ86	784676	7316	3 - 392	17068	Thr-46 to Ser-55.	L0748: 2 and S0134: 1.		
HTGCH60	895628	7317	382 - 134	17069		S0134: 1		
HTGCD55	732247	7318	523 - 678	17070		L0748: 2 and S0134: 1.		
HTGBS94	578786	7319	238 - 399	17071		S0134: 1		
HTGBS70	870405	7320	1 - 120	17072	Glu-14 to Ala-19.	S0134: 1		
HTGBS59	739388	7321	155 - 286	17073		S0134: 1 and L0756: 1.		
HTGBS51	578782	7322	66 - 167	17074		S0134: 1		
HTGBS34	576472	7323	3 - 200	17075		S0134: 1 and L0756: 1.		
HTGBS08	959699	7324	565 - 810	17076	Leu-10 to His-15, Gly-31 to Glu-36, Glu-53 to Gly-65.	L0748: 2 and S0134: 1.		

HTGBR52	727276	7325	230 - 391	17077	Phe-20 to Ser-25.	L0754: 2 and S0134: 1.	16q22	103850, 114835, 121360, 217800, 218030
HTGBN58	738229	7326	114 - 233	17078		S0134: 1 and L0439: 1.		
HTGBL15	660483	7327	225 - 518	17079		S0134: 1 and L0748: 1.		
HTGBH09	625756	7328	7 - 126	17080	Glu-29 to Arg-40.	L0598: 2 and S0134: 1.		
HTGBE67	751525	7329	55 - 228	17081		S0134: 1		
HTGBE59	578807	7330	27 - 185	17082	Lys-1 to Lys-7.	S0134: 1		
HTGBE05	932168	7331	127 - 375	17083	Pro-54 to Pro-59.	S0134: 1		
HTGAZ86	785594	7332	96 - 239	17084		S0134: 1 and L0748: 1.		
HTGAZ75	766583	7333	342 - 479	17085		S0134: 1 and L0748: 1.		
HTGAY27	683556	7334	31 - 252	17086		L0367: 2, S0134: 1, L0370: 1, L0652: 1, L0748: 1 and L0605: 1.		
HTGAX83	781275	7335	1 - 210	17087	Asn-18 to Cys-24, Arg-57 to Pro-70.	S0134: 1 and L0756: 1.		
HTGAW78	773666	7336	199 - 417	17088	Leu-43 to Thr-48.	S0134: 1 and L0766: 1.		
HTGAT92	496307	7337	503 - 297	17089		S0134: 1 and L0766: 1.		
HTGAT55	732248	7338	162 - 446	17090	Pro-23 to Pro-32, Arg-46 to Trp-51.	L0749: 2 and S0134: 1.		
HTGAT16	919524	7339	141 - 356	17091		S0134: 1 and L0748: 1.		
HTGAT01	870424	7340	67 - 372	17092		S0134: 1 and L0766: 1.		
HTGAS15	870423	7341	14 - 223	17093	Lys-11 to Cys-18.	S0134: 1, L0756: 1 and L0759: 1.		
HTGAR44	716740	7342	22 - 309	17094	Trp-49 to Ala-54, His-62 to Asp-71, Gln-88 to Ser-96.	S0134: 1 and L0581: 1.		
HTGAK39	705634	7343	3 - 173	17095	Pro-31 to Gln-36.	S0134: 1 and L0766: 1.		
HTGAJ86	785672	7344	3 - 113	17096	Leu-15 to Arg-24.	S0134: 1 and L0749: 1.		
HTGAJ73	764598	7345	194 - 430	17097	Arg-26 to Glu-31, Gly-51 to Gln-59.	S0134: 1 and L0748: 1.		
HTGAI96	796541	7346	349 - 618	17098	Leu-6 to Gly-11.	S0134: 1, L0748: 1 and L0756: 1.		
HTGAI15	870441	7347	214 - 462	17099		S0134: 1 and L0749: 1.		
HTGAI13	955227	7348	178 - 387	17100	Asn-29 to Lys-37.	S0134: 1 and L0748: 1.		

HTGAD62	754052	7349	1 - 126	17101			S0134: 1 and L0731: 1.		
HTGAD16	567432	7350	204 - 554	17102	Gln-29 to Phe-35, Pro-73 to Pro-79, Pro-86 to Pro-99.		AR051: 22, AR050: 19, AR054: 17 S0134: 1		
HTGAD05	932378	7351	223 - 372	17103	Ala-13 to Leu-23, Ala-30 to Asp-40.		L0608: 2 and S0134: 1.		
HTGAC17	664513	7352	2 - 220	17104	Pro-23 to His-28, Ser-65 to Arg-70.		S0134: 1, L0790: 1 and L0740: 1.		
HTGAA80	574099	7353	119 - 277	17105	Pro-10 to Gln-24.		S0134: 1		
HTGAA44	574114	7354	42 - 266	17106	Ser-2 to Glu-10, Lys-18 to Gly-28.		S0134: 1		
HTDAC74	765656	7355	6 - 311	17107	His-1 to Trp-6, Arg-36 to Gly-67, Pro-73 to Gln-82.		L0361: 2, H0477: 1 and L0601: 1.		
HTDAB18	870746	7356	339 - 659	17108	Gly-10 to Ser-17.		H0477: 1 and L0803: 1.		
HTBAB07	954434	7357	3 - 224	17109	Gln-1 to Met-6, Pro-9 to Asp-14, Glu-36 to Trp-45, Arg-47 to Glu-58.		H0075: 1 and L0589: 1.		
HTBAA86	785846	7358	160 - 420	17110	His-1 to Ala-8.		H0075: 1		
HTAJP12	969518	7359	438 - 79	17111	Pro-5 to Arg-10, Gly-71 to Arg-76.		H0635: 1, L0772: 1 and L0662: 1.		
HTAJD72	880561	7360	237 - 88	17112			H0635: 1 and L0748: 1.		
HTAIY90	973870	7361	202 - 411	17113	Arg-23 to Trp-48.		H0635: 1		
HTAIQ05	930947	7362	147 - 359	17114	Ser-35 to Ile-41.		H0635: 1 and L0070: 1.		
HTAIG58	838701	7363	288 - 452	17115			L0455: 2 and H0635: 1.		
HTAIF22	910040	7364	179 - 457	17116			AR061: 4, AR089: 3 H0635: 1		
HTAIF11	965738	7365	3 - 461	17117	Glu-1 to Arg-7, His-87 to Gln-95.		H0635: 1		
HTAHZ02	918304	7366	65 - 277	17118			H0635: 1		
HTAGB16	870855	7367	249 - 569	17119	His-16 to Trp-25, Asp-55 to Gly-63.		H0635: 1 and L0748: 1.		
HTAFC92	790991	7368	113 - 418	17120			AR050: 26, AR051: 23, AR054: 22 H0069: 1		

HTAEV23	959129	7369	823 - 329	17121	Leu-7 to Lys-16, Thr-31 to Arg-41, Lys-54 to Asn-61, Ser-89 to His-104, Lys-126 to Lys-131.	AR061: 6, AR089: 4 H0069: 1		
HTAEP05	932459	7370	52 - 228	17122	Arg-41 to Glu-46, Glu-49 to Arg-59.	H0069: 1, L0370: 1, L0776: 1 and L0758: 1.		
HTAEK41	870858	7371	1 - 306	17123	Gly-1 to Arg-7.	H0069: 1	2q37.2	
HTAEF68	753597	7372	1 - 168	17124	Thr-27 to Ser-40.	H0069: 1 and L0439: 1.		
HTADW88	425065	7373	114 - 221	17125		H0069: 1		
HTADW52	537376	7374	63 - 170	17126	Trp-1 to Gly-7.	H0069: 1		
HTADO10	968307	7375	3 - 161	17127		H0069: 1 and L0438: 1.		
HTADB68	753598	7376	3 - 134	17128	Pro-6 to Lys-17.	H0069: 1 and L0748: 1.		
HTACX05	932467	7377	419 - 661	17129	Ser-16 to Gly-22.	H0069: 1 and L0750: 1.		
HTACW82	778852	7378	3 - 134	17130	Ser-1 to Gly-15.	H0069: 1 and L0748: 1.		
HTABK47	720684	7379	161 - 526	17131		L0749: 2, H0069: 1 and L0748: 1.		
HTABE12	971524	7380	98 - 187	17132		H0069: 1 and L0748: 1.		
HTAAO12	972231	7381	64 - 291	17133		H0069: 1 and L0643: 1.		
HTAAB06	960796	7382	110 - 15	17134	Ser-1 to Gly-9, Pro-12 to Gly-25, Pro-27 to Gly-32.	L0518: 4 and H0069: 1.		
HTAAA45	518652	7383	299 - 123	17135	Asn-6 to Ser-11, Pro-28 to Trp-37, Thr-39 to Lys-50.	H0069: 1		
HTAAA31	693527	7384	130 - 2	17136	Phe-19 to Gln-24.	H0069: 1 and L0740: 1.		
HT4AY23	973773	7385	2 - 169	17137	Pro-2 to Cys-18, Phe-22 to Gly-29.	H0141: 1		
HT3TA67	752169	7386	1 - 483	17138	Gln-1 to Ser-9, Ser-43 to Glu-53, Leu-84 to Phe-92, Leu-96 to Ile-101.	L0439: 3 and H0223: 1.		
HT3SH28	508061	7387	1 - 210	17139	Gln-16 to Ser-21, Thr-48 to Lys-56.	H0222: 1		
HT3SA81	589206	7388	3 - 272	17140	Pro-27 to Ser-35, Pro-51 to Trp-58.	H0222: 1	1q21	104770, 107670, 110700, 135940,

HT3SA80	781631	7389	134 - 349	17141	Gly-27 to Ala-33.	H0222: 1	145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491
HT3SA71	766391	7390	54 - 326	17142	Gln-20 to Phe-26, Val-73 to Asn-91.	H0222: 1	
HT3SA56	522757	7391	233 - 418	17143	Asn-32 to Lys-43.	H0222: 1	
HT3BK75	766488	7392	1 - 273	17144		H0159: 1 and L0743: 1.	
HT3BF33	527782	7393	80 - 181	17145	Val-27 to Ser-33.	H0159: 1	
HT2TA82	522751	7394	77 - 160	17146		H0221: 1	
HT2TA37	522754	7395	20 - 193	17147	Glu-38 to Ser-44.	H0221: 1	
HT2SA86	524290	7396	101 - 265	17148	Ser-9 to Ser-14, Glu-30 to Ile-36, Tyr-38 to His-43.	H0220: 1	
HT2SA63	518341	7397	37 - 171	17149		H0220: 1	
HT2SA50	522771	7398	180 - 326	17150	Pro-1 to Asn-7, Gly-23 to Ile-28.	L0748: 2 and H0220: 1.	
HT2SA48	508077	7399	52 - 273	17151	Gly-25 to His-31.	H0220: 1	
HT2SA47	578704	7400	110 - 247	17152		H0220: 1	
HT2SA38	840184	7401	21 - 155	17153		H0220: 1	
HT2SA37	695038	7402	2 - 97	17154		H0220: 1	
HT2SA26	522770	7403	403 - 272	17155	Lys-1 to Leu-11.	H0220: 1 and L0439: 1.	
HT2SA13	870917	7404	124 - 336	17156	Glu-1 to Val-11, Leu-34 to Tyr-44.	H0220: 1	
HT1TB40	575355	7405	114 - 251	17157		H0219: 1	
HSYDH60	949156	7406	115 - 282	17158	Pro-20 to Ser-25, Phe-49 to Trp-54.	L0731: 2, H0551: 1, L0747: 1 and L0750: 1.	
HSYCV01	926955	7407	233 - 376	17159		H0551: 1 and L0745: 1.	
HSYCV01	940661	7408	1 - 522	17160	Thr-11 to Arg-16.	H0551: 1 and L0740: 1.	

HSYCS04	926943	7409	247 - 134	17161			H0551: 1 and L0542: 1.		
HSYBZ51	725586	7410	2 - 388	17162			H0551: 1 and L0752: 1.		
HSYBX42	713630	7411	1 - 210	17163		Arg-10 to Arg-20, Ala-35 to Gly-54.	H0551: 1 and L0601: 1.		
HSYBW55	731627	7412	245 - 532	17164		Ile-1 to Asn-10.	H0551: 1 and L0740: 1.		
HSYBK77	772067	7413	59 - 541	17165			H0551: 1, L0740: 1 and L0777: 1.		
HSYBH70	756492	7414	89 - 475	17166		Val-1 to Asp-6, Val-10 to Asn-20, Gly-33 to Asn-46, Glu-57 to Ser-62, Ala-69 to Gln-74, Asp-90 to Ser-100.	L0439: 2, H0551: 1 and L0745: 1.		
HSYBH16	661807	7415	2 - 571	17167		Pro-10 to Arg-16.	H0551: 1, L0747: 1 and L0777: 1.		
HSYAV79	928403	7416	85 - 408	17168			H0551: 1 and L0766: 1.		
HSYAU07	953032	7417	1 - 216	17169			H0551: 1, L0779: 1, L0592: 1 and L0608: 1.		
HSYAF81	493771	7418	134 - 3	17170		Leu-22 to Ala-28, Lys-33 to Arg-44.	H0551: 1		
HSMBD15	659891	7419	2 - 421	17171		Ser-36 to Thr-42.	S0298: 1 and L0740: 1.	19q	
HSMBC78	917244	7420	374 - 610	17172			S0298: 1 and L0759: 1.		
HSMBA83	780932	7421	9 - 239	17173		Pro-9 to Trp-16, Pro-55 to Leu-61, Asn-70 to Gly-77.	S0298: 1 and L0756: 1.		
HSMBA39	715630	7422	166 - 363	17174			L0770: 2, L0749: 2, S0298: 1, L0653: 1, L0776: 1, L0659: 1 and L0789: 1.		
HSZQ69	754362	7423	170 - 298	17175			S0114: 1 and L0754: 1.		
HSZP83	780400	7424	283 - 510	17176		Arg-15 to Ile-23, Thr-33 to Phe-39.	S0114: 1 and L0745: 1.		
HSZP65	747422	7425	15 - 284	17177		Thr-8 to Trp-13.	S0114: 1 and L0754: 1.		
HSZIG64	746074	7426	326 - 517	17178		Leu-9 to His-14.	S0114: 1 and L0756: 1.		
HSZIS53	727757	7427	239 - 337	17179			L0748: 2 and S0114: 1.		
HSZGS2	726195	7428	274 - 396	17180		Ile-16 to Gly-21.	L0754: 2 and S0114: 1.		
HSZG23	950023	7429	120 - 467	17181			AR089: 40, AR061: 7		



	963220	9629	466 - 152	19381	Pro-13 to Asp-20, Thr-27 to Arg-32, Lys-53 to Trp-59, Pro-65 to Gly-70, Gly-77 to Gly-86.	L0523: 2, S0114: 1, L0748: 1 and L0749: 1.		
HSZA42	866817	7430	136 - 324	17182	Ser-16 to Lys-21.	S0114: 1		
HSZA39	705365	7431	131 - 328	17183	Ile-15 to His-21.	S0114: 1 and L0594: 1.		
HSZA06	935451	7432	173 - 364	17184	Gln-9 to Leu-16.	S0114: 1		
HSAYT37	708803	7433	170 - 316	17185	His-23 to Arg-29.	S0114: 1 and L0748: 1.		
HSAYT29	866821	7434	343 - 585	17186		S0114: 1 and L0530: 1.		
HSAYR63	744333	7435	1 - 318	17187		S0114: 1 and L0748: 1.		
HSAYO42	713793	7436	169 - 405	17188	Arg-8 to Phe-16, Gln-25 to Gly-31, Gln-37 to Asn-45.	S0114: 1 and L0754: 1.		
HSAYK93	791546	7437	215 - 433	17189	Arg-16 to His-25, Arg-47 to Phe-57, Pro-60 to Ser-68.	L0749: 2 and S0114: 1.		
HSAXS16	661933	7438	1 - 165	17190	Lys-40 to Ser-45, Cys-49 to Arg-55.	S0114: 1 and L0748: 1.		
HSAXM08	866838	7439	343 - 648	17191	Val-34 to Asp-39, Ser-73 to Ser-87, Lys-93 to Arg-100.	S0114: 1		
	958886	9630	212 - 499	19382				
HSAXJ95	721825	7440	135 - 446	17192		S0114: 1 and L0439: 1.		
HSAXJ93	792516	7441	301 - 453	17193	Glu-6 to Lys-12.	S0114: 1 and L0757: 1.		
HSAXI05	932387	7442	151 - 357	17194	Gln-6 to Asn-20, Val-22 to Thr-36.	S0114: 1 and L0756: 1.		
HSAXH85	784475	7443	32 - 181	17195		S0114: 1 and L0748: 1.		
HSAXG45	457077	7444	67 - 243	17196	Gln-13 to Ser-21.	S0114: 1 and L0756: 1.		
HSAXE42	714040	7445	3 - 227	17197		L0742: 2 and S0114: 1.		
HSAXE33	702673	7446	131 - 334	17198		S0114: 1 and L0753: 1.		
HSAXC55	732368	7447	363 - 202	17199	Lys-24 to Glu-30, Ser-46 to Gln-54.	S0114: 1 and L0600: 1.		
HSAXB89	787069	7448	102 - 224	17200	Leu-2 to Asp-12.	S0114: 1 and L0745: 1.		

HSAWY92	792888	7449	114 - 389	17201	Leu-2 to Thr-7.	S0114: 1, L0748: 1 and L0749: 1.	
HSAWY81	574184	7450	21 - 239	17202	Tyr-21 to Arg-26, Val-48 to Ala-54.	S0114: 1	
HSAWY79	574182	7451	1 - 204	17203	His-56 to Ser-62.	S0114: 1	
HSAWY33	866861	7452	85 - 222	17204		S0114: 1 and L0592: 1.	
HSAWY07	933851	7453	241 - 381	17205		S0114: 1	
HSAWW74	765818	7454	40 - 120	17206		S0114: 1 and L0439: 1.	9p22.2
HSAWU12	968804	7455	72 - 368	17207	Ile-1 to Leu-8, Ser-31 to Thr-40, Glu-69 to Pro-80.	S0114: 1 and L0748: 1.	
HSAWS74	765819	7456	166 - 345	17208	Asn-44 to Arg-57.	S0114: 1 and L0595: 1.	
HSAWS40	711441	7457	37 - 159	17209		S0114: 1 and L0748: 1.	
HSAWR08	959943	7458	3 - 359	17210	Asn-13 to Lys-20, Val-92 to Arg-98.	L0758: 3 and S0114: 1.	
HSAWO08	959938	7459	176 - 319	17211	Ser-20 to Leu-28.	S0114: 1 and L0717: 1.	
HSAWL77	772444	7460	175 - 285	17212		L0748: 4 and S0114: 1.	
HSAWL68	753569	7461	143 - 292	17213	Gly-5 to Glu-10.	S0114: 1 and L0750: 1.	
HSAWK67	526767	7462	212 - 361	17214		S0114: 1	
HSAWK32	418690	7463	14 - 220	17215		S0114: 1	
HSAWK21	954897	7464	14 - 283	17216	Glu-51 to Asn-61.	S0114: 1	
HSAWK20	866872	7465	134 - 307	17217		S0114: 1	
HSAWI13	971727	7466	273 - 539	17218	Pro-15 to Phe-22, Gly-46 to His-55.	S0114: 1, L0779: 1 and L0591: 1.	
HSAWI11	964949	7467	167 - 322	17219		S0114: 1 and L0754: 1.	
HSAWG44	716820	7468	146 - 346	17220	Leu-3 to Lys-9.	L0753: 2, S0114: 1 and L0521: 1.	
HSAWF86	675220	7469	38 - 253	17221		S0114: 1 and L0748: 1.	
HSAWF52	728598	7470	2 - 328	17222		S0114: 1 and L0745: 1.	
HSAWD34	706928	7471	194 - 349	17223		S0114: 1 and L0740: 1.	
HSAWD24	677435	7472	3 - 236	17224		S0114: 1 and L0748: 1.	
HSAWD15	660572	7473	316 - 447	17225		S0114: 1, L0438: 1 and L0439: 1.	
HSAWC55	866890	7474	102 - 347	17226	Ser-1 to Gln-12.	S0114: 1	
HSAWB70	757409	7475	12 - 170	17227		S0114: 1 and L0748: 1.	

HSAVZ82	881166	7476	115 - 291	17228		S0114: 1 and L0748: 1.		
HSAVZ63	574195	7477	113 - 253	17229	Thr-5 to Thr-10.	S0114: 1		
HSAVY10	968230	7478	36 - 212	17230		S0114: 1 and L0601: 1.		
HSAVY02	920721	7479	81 - 422	17231	Thr-11 to Ser-18, Leu-56 to Glu-70.	S0114: 1, L0527: 1 and L0682: 1.		
HSAVX22	674919	7480	116 - 247	17232		S0114: 1 and L0748: 1.		
HSAVW13	862754	7481	115 - 225	17233		S0114: 1 and L0748: 1.		
HSAVV36	866886	7482	2 - 208	17234		S0114: 1, L0748: 1 and L0361: 1.		
HSAVS48	721856	7483	21 - 131	17235		S0114: 1 and L0746: 1.		
HSAVQ73	929276	7484	501 - 695	17236	Leu-47 to Asp-61.	S0114: 1 and L0604: 1.	11q23.3	176000, 261640, 602574, 602574
HSAVP56	733616	7485	3 - 206	17237		S0114: 1 and L0748: 1.		
HSAVO05	932379	7486	35 - 253	17238	Ser-26 to Cys-33, Gly-53 to Pro-62.	S0114: 1 and L0773: 1.		
HSAVN72	574129	7487	3 - 296	17239		S0114: 1 and L0748: 1.		
HSAVN48	526505	7488	1 - 144	17240		S0114: 1		
HSAVN24	574106	7489	2 - 112	17241	Glu-1 to Trp-16, His-18 to Ser-26.	S0114: 1		
HSAVK84	783183	7490	127 - 246	17242		S0114: 1 and L0748: 1.		
HSAVI84	783182	7491	84 - 233	17243		L0748: 3, S0114: 1, L0740: 1 and L0749: 1.		
HSAVI53	728361	7492	1 - 219	17244	Lys-1 to Leu-25.	L0605: 2 and S0114: 1.		
HSAVG96	796544	7493	86 - 238	17245		S0114: 1 and L0598: 1.		
HSAVF17	664515	7494	221 - 313	17246	Asn-19 to Phe-24.	S0114: 1, L0766: 1, L0665: 1 and L0748: 1.		
HSAVE61	742076	7495	238 - 447	17247	Gly-43 to Ser-57.	S0114: 1 and L0599: 1.		
HSAVA79	781800	7496	1 - 111	17248	Val-2 to Glu-7.	S0114: 1 and L0731: 1.		
HSAVA22	674977	7497	79 - 189	17249	Phe-17 to Gln-23.	S0114: 1, L0521: 1 and L0748: 1.		
HSAUZ11	967609	7498	42 - 338	17250	Arg-13 to Gly-19.	S0114: 1 and L0766: 1.		
HSAUW24	679279	7499	57 - 341	17251	Tyr-46 to Phe-51.	S0114: 1 and L0748: 1.		
HSAUU25	679278	7500	315 - 659	17252	Asn-32 to Pro-40, Ser-49 to Cys-54.	L0748: 3, L0749: 3, L0596: 2 and S0114: 1.		
HSAUQ81	866192	7501	49 - 309	17253		AR051: 41, AR050: 27,		

	899273	9631	201 - 389	19383		AR054: 22 S0114: 1 and L0766: 1.		
HSAUQ54	730928	7502	161 - 373	17254		S0114: 1 and L0748: 1.		
HSAUQ44	716847	7503	61 - 201	17255	Pro-16 to Phe-22.	S0114: 1 and L0754: 1.		
HSAUL84	908440	7504	3 - 302	17256	Ala-23 to Asp-28, Gln-53 to Tyr-60.	AR061: 1, AR089: 1 S0114: 1 and L0686: 1.		
HSAUK72	766240	7505	110 - 280	17257	Pro-11 to Ser-17.	S0114: 1 and L0591: 1.		
HSAUK48	883205	7506	2 - 238	17258	Pro-5 to Gly-15, Ala-35 to Gln-40.	S0114: 1 and L0750: 1.		
HSAUI23	422961	7507	485 - 129	17259		L0789: 2, S0114: 1, L0748: 1 and L0599: 1.		
	843427	9632	405 - 608	19384	Leu-3 to Gly-11, Glu-14 to Ala-21.			
HSAUH06	954543	7508	2 - 211	17260		S0114: 1 and L0599: 1.		
HSAUH02	917314	7509	3 - 224	17261		S0114: 1, L0749: 1 and L0589: 1.		
HSAUG74	765859	7510	358 - 483	17262		S0114: 1, L0740: 1 and L0747: 1.		
HSAUD02	920827	7511	37 - 237	17263		S0114: 1 and L0748: 1.		
HSAUB69	514840	7512	179 - 406	17264	Gly-15 to Lys-20.	S0114: 1		
	567319	9633	50 - 229	19385				
HSAUB39	705677	7513	157 - 357	17265	Lys-23 to Thr-35.	S0114: 1 and L0748: 1.		
HSATZ81	778268	7514	101 - 268	17266		L0745: 2 and S0114: 1.		
HSATY22	674986	7515	3 - 401	17267	Glu-31 to Tyr-43, Pro-94 to Arg-108.	L0779: 4, L0758: 2, S0114: 1 and L0749: 1.		
HSATW91	790394	7516	223 - 333	17268		S0114: 1 and L0748: 1.		
HSATW51	725879	7517	284 - 529	17269	Leu-12 to Lys-31.	S0114: 1 and L0740: 1.		
HSATV96	843424	7518	526 - 681	17270		S0114: 1 and L0748: 1.		
HSATS25	866949	7519	2 - 184	17271	Lys-36 to Ile-41, Val-56 to Lys-61.	S0114: 1, L0766: 1 and L0779: 1.		
HSATQ55	732406	7520	57 - 350	17272	Asn-3 to Ser-8, Asn-16 to His-24, Phe-42 to Gly-48, Arg-71 to Lys-81, Gly-88 to Gly-98.	S0114: 1 and L0748: 1.		

HSATM64	862436	7521	356 - 640	17273	Gly-1 to Gly-8, Ser-26 to Ala-39, Ser-52 to Arg-58, Ser-63 to Leu-71, Ala-90 to Ser-95.	L0747: 3, L0756: 2, S0114: 1 and L0750: 1.		
HSATM19	866954	7522	281 - 448	17274		S0114: 1 and L0748: 1.		
HSATM09	456326	7523	42 - 176	17275		S0114: 1 and L0599: 1.		
HSATL02	920825	7524	3 - 227	17276	Arg-1 to Asn-8, Glu-10 to Asp-16.	L0518: 3 and S0114: 1.		
HSATI58	866955	7525	124 - 429	17277	Pro-51 to Pro-58.	S0114: 1 and L0509: 1.		
HSATE53	728414	7526	224 - 448	17278		L0748: 3 and S0114: 1.		
HSATC79	602167	7527	269 - 424	17279	Ser-14 to Thr-23.	S0114: 1 and L0600: 1.		
HSATC72	761511	7528	219 - 332	17280	Asp-14 to Thr-20.	L0731: 2 and S0114: 1.		
HPSAD92	790524	7529	77 - 298	17281		H0074: 1 and L0748: 1.		
HPSAB26	429558	7530	142 - 282	17282	Asp-1 to Gly-7, Pro-41 to Gln-47.	H0074: 1		
HPSAB24	518747	7531	171 - 341	17283	Pro-5 to Ala-13, Pro-15 to Thr-24.	H0074: 1		
HPSAB15	503600	7532	126 - 401	17284		L0748: 2, L0749: 2 and H0074: 1.		
HPSAA94	793000	7533	356 - 75	17285		H0074: 1		
HPSAA93	867387	7534	2 - 178	17286		H0074: 1		
HPSAA91	503543	7535	275 - 6	17287	Ser-31 to Pro-37, Pro-52 to Trp-60, Leu-66 to Leu-71.	H0074: 1		
HPSAA75	503544	7536	317 - 138	17288		H0074: 1 and L0748: 1.		
HPSAA41	503569	7537	257 - 355	17289	Leu-1 to Asn-11.	H0074: 1		
HPSAA30	503567	7538	29 - 253	17290	Val-19 to Met-29.	L0766: 3 and H0074: 1.		
HPSAA03	960941	7539	529 - 362	17291		H0074: 1		
HNNTA24	911178	7540	189 - 596	17292	Leu-98 to Ala-105, Pro-120 to Gly-127.	AR050: 87, AR054: 77, AR051: 70 H0679: 1		
	972489	9634	182 - 589	19386	Leu-98 to Ala-105, Pro-120 to Gly-127.			
HNHPF67	859817	7541	191 - 475	17293		S0216: 1 and L0748: 1.		
HNHPD68	974350	7542	13 - 252	17294	Thr-1 to His-12.	S0216: 1		

HNHOX01	915303	7543	3 - 176	17295	Glu-12 to Ser-18, Arg-24 to Pro-35, Pro-43 to Arg-49.	S0216: 1		
HNHOV24	974344	7544	138 - 278	17296	Lys-21 to Pro-27, Arg-41 to Thr-47.	L0532: 1 and S0216: 1.		
HNHOQ36	859824	7545	108 - 473	17297	Ala-47 to Gly-52, Pro-87 to Ser-98.	L0493: 2 and S0216: 1.		
HNHOP92	790911	7546	2 - 256	17298	Gly-1 to Ser-7, Glu-9 to Asp-18.	S0216: 1 and L0589: 1.		
HNHOP88	974327	7547	3 - 215	17299	Gln-43 to His-51.	S0216: 1		
HNHOP32	974330	7548	293 - 445	17300		S0216: 1		
HNHOI63	838790	7549	103 - 336	17301	Ser-61 to Pro-72.	L0521: 1 and S0216: 1.		
HNHOI07	952285	7550	167 - 358	17302	Asn-1 to Asn-10, Glu-12 to Val-20, Trp-29 to Gly-39, Ser-53 to Thr-60.	S0216: 1 and L0592: 1.		
HNHOF94	948720	7551	2 - 508	17303	Pro-94 to Ser-102.	AR051: 25, AR050: 24, AR054: 20, AR089: 17, AR061: 9 S0216: 1		
HNHNT20	773683	7552	133 - 279	17304		S0216: 1 and L0599: 1.	6p24	134570
HNHNQ08	958377	7553	148 - 429	17305		S0216: 1 and L0748: 1.		
HNHNIP81	928378	7554	143 - 514	17306	Ile-1 to Ser-16.	AR051: 23, AR054: 11, AR050: 9, AR061: 8, AR089: 5 S0216: 1		
HNHNIP66	918684	7555	3 - 326	17307		S0216: 1		
HNHNO01	915358	7556	200 - 367	17308		S0216: 1 and L0749: 1.		
HNHNIM39	950971	7557	249 - 88	17309	Val-2 to Thr-12.	S0216: 1 and L0750: 1.		
HNHNK02	918715	7558	225 - 512	17310	Leu-33 to Ser-40.	L0370: 1 and S0216: 1.		
HNHNJ24	859836	7559	146 - 403	17311		L0775: 1, S0216: 1, L0438: 1 and L0752: 1.		
HNHNJ09	800482	7560	223 - 483	17312	Ser-28 to Arg-33.	S0216: 1		
HNHNH51	974343	7561	1 - 255	17313		S0216: 1		
HNHND85	870121	7562	71 - 529	17314	Pro-21 to Ser-26, His-29 to Arg-35.	L0753: 2 and S0216: 1.		

HNHND81	974334	7563	2 - 229	17315	Pro-41 to Leu-50, Thr-87 to Arg-99.	S0216: 1		
HNHND07	952273	7564	186 - 320	17316	Thr-24 to Ser-29, Pro-31 to Thr-40, Leu-44 to Val-61.	S0216: 1 and L0748: 1.		
HNHNB92	790945	7565	34 - 342	17317	Pro-47 to Gly-55.	S0216: 1 and L0777: 1.		
HNHNB85	783887	7566	149 - 322	17318		S0216: 1 and L0745: 1.		
HNHNB02	918709	7567	124 - 234	17319		S0216: 1 and L0748: 1.		
HNHMBZ49	859842	7568	220 - 426	17320		S0216: 1 and L0589: 1.		
HNHMY52	975207	7569	2 - 190	17321	Asn-7 to Ile-25, Ala-29 to His-41.	S0216: 1		
HNHMS26	975206	7570	155 - 286	17322	Ile-33 to Ser-41.	S0216: 1		
HNHMQ86	784986	7571	2 - 151	17323	Pro-1 to Thr-7, Pro-26 to Tyr-31.	S0216: 1 and L0731: 1.		
HNHMQ28	859847	7572	6 - 131	17324		S0216: 1 and L0748: 1.		
HNHMF02	918649	7573	2 - 169	17325	Phe-1 to Phe-7, Lys-23 to Lys-30.	S0216: 1 and L0758: 1.		
HNHLY58	859849	7574	571 - 323	17326		L0365: 1 and S0216: 1.		
HNHLW34	859850	7575	353 - 66	17327	Glu-9 to Lys-19.	S0216: 1 and L0438: 1.		
HNHLW10	963542	7576	16 - 213	17328	Lys-8 to Cys-14.	S0216: 1 and L0361: 1.		
HNHLR36	859851	7577	402 - 587	17329		L0520: 1 and S0216: 1.		
HNHLQ07	952279	7578	387 - 566	17330		L0749: 3 and S0216: 1.		
HNHLG36	855071	7579	335 - 556	17331		L0659: 1, L0663: 1, S0216: 1 and L0601: 1.		
HNHLD70	756668	7580	3 - 221	17332	Ser-10 to Thr-21, Pro-23 to Asn-34, Leu-42 to Thr-51.	S0216: 1 and L0592: 1.		
HNHLC01	915363	7581	277 - 519	17333		L0385: 1 and S0216: 1.		
HNHLB03	923091	7582	2 - 256	17334	Ala-17 to Cys-32, Gln-38 to Lys-47, Ser-58 to Ala-64, Arg-66 to Trp-72.	L0741: 4 and S0216: 1.		
HNHKT86	785104	7583	379 - 44	17335		L0439: 2 and S0216: 1.		
HNHKQ50	723868	7584	84 - 434	17336		L0748: 2, L0766: 1, S0216: 1 and L0779: 1.		

HNHHP03	923276	7585	350 - 679	17337	Pro-20 to His-29.	L0758: 3 and S0216: 1.	
HNHKG161	859925	7586	335 - 505	17338		L0766: 1, S0216: 1 and L0740: 1.	
HNHIS54	730706	7587	189 - 1	17339		S0053: 1 and L0439: 1.	
HNHIR83	781195	7588	36 - 284	17340		S0053: 1 and L0439: 1.	
HNHIC85	784345	7589	137 - 442	17341	Asp-1 to Pro-11, Gly-27 to Cys-34.	S0053: 1, L0748: 1 and L0749: 1.	
HNHHL58	736064	7590	136 - 501	17342	Ile-2 to Arg-8, Phe-21 to Gln-30.	S0053: 1 and L0596: 1.	
HNHHG53	830068	7591	172 - 336	17343		S0053: 1 and L0591: 1.	
HNHHF86	784698	7592	168 - 383	17344		S0053: 1	
HNHHF61	741836	7593	86 - 316	17345		S0053: 1	
HNHHF52	726576	7594	101 - 292	17346	Thr-35 to Pro-40.	S0053: 1	
HNHHF39	705407	7595	149 - 346	17347	Glu-16 to Pro-21, Pro-30 to Pro-36, Arg-47 to Ser-58, Leu-60 to Lys-65.	S0053: 1	
HNHHF38	709278	7596	41 - 184	17348	Ile-38 to Pro-47.	S0053: 1	
HNHHF37	708714	7597	2 - 229	17349		S0053: 1	
HNHHF28	694365	7598	3 - 227	17350	Glu-5 to Pro-14.	S0053: 1 and L0600: 1.	
HNHHF13	657245	7599	138 - 55	17351	Pro-1 to Lys-12, Lys-18 to Leu-24.	S0053: 1	
HNHHF03	924221	7600	101 - 193	17352	Ser-10 to Val-16.	S0053: 1	
HNHHF61	741839	7601	89 - 196	17353	Pro-1 to Gln-8.	L0758: 2, S0053: 1 and L0602: 1.	
HNHGX61	948731	7602	136 - 291	17354	Pro-26 to Lys-34, Pro-47 to Gln-52.	S0053: 1 and L0589: 1.	
HNHGV62	743400	7603	1 - 228	17355	Ser-61 to Pro-70.	S0053: 1	
HNHGU56	859953	7604	117 - 440	17356		L0369: 1 and S0053: 1.	
HNHGT92	496480	7605	12 - 164	17357		S0053: 1	
HNHGT84	781977	7606	110 - 307	17358		S0053: 1	
HNHGT80	775409	7607	45 - 260	17359	Glu-8 to Lys-14, Arg-20 to Gln-25.	S0053: 1	
HNHGT15	660304	7608	144 - 311	17360	Ser-13 to Gln-27.	L0589: 2 and S0053: 1.	
HNHGT09	625615	7609	1 - 243	17361	Thr-2 to Asp-10,	S0053: 1	



HNHGS24	677228	7610	350 - 748	17362	Asp-16 to Ile-21, Ile-25 to Lys-36.	L0749: 3, L0748: 2 and S0053: 1.		
HNHGO45	582523	7611	547 - 879	17363	Cys-51 to Ser-57, Arg-68 to His-77, Asn-93 to His-102.	L0748: 2 and S0053: 1.	11p15.5-p15.4	125852, 126452, 126452, 130650, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 150000, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 257200, 257200, 600856, 601680, 602631, 602631
HNHGN27	859972	7612	3 - 314	17364	Glu-5 to Ser-14, Pro-22 to Cys-27.	L0758: 2 and S0053: 1.		
HNHGI60	740396	7613	159 - 488	17365		L0745: 4 and S0053: 1.		
HNHGI03	923829	7614	1 - 309	17366	Glu-92 to Lys-103.	S0053: 1		
HNHGH83	781208	7615	2 - 241	17367	Ala-8 to Leu-13, Lys-26 to Val-32.	S0053: 1 and L0592: 1.		
HNHGH22	859983	7616	3 - 251	17368	His-1 to Thr-7, Glu-28 to Asn-37.	S0053: 1 and L0748: 1.		
HNHGG39	561093	7617	117 - 329	17369		AR051: 10, AR050: 10, AR054: 9 S0053: 1 and L0361: 1.		
HNHGF28	686735	7618	18 - 443	17370	Pro-5 to Gly-12.	S0053: 1 and L0740: 1.		
HNHGE91	790212	7619	3 - 242	17371	Glu-18 to Ser-29, Val-31 to Arg-41, Gly-47 to Phe-54.	S0053: 1		
HNHGE81	777955	7620	44 - 295	17372	Lys-29 to Trp-40.	S0053: 1		

HNHGE79	775214	7621	107 - 286	17373	Glu-29 to Asp-35.	S0053: 1	
HNHGE68	753052	7622	1 - 174	17374	Gly-1 to Ser-7, Thr-12 to Lys-19.	S0053: 1	
HNHGE44	683294	7623	1 - 339	17375	Thr-50 to Glu-59.	L0589: 3 and S0053: 1.	
HNHGE31	698046	7624	59 - 169	17376		S0053: 1	
HNHGE24	677234	7625	50 - 154	17377	Pro-16 to Tyr-24.	S0053: 1	
HNHGE12	970722	7626	1 - 396	17378	Gly-1 to Arg-17, Ser-24 to Cys-33, Thr-78 to Arg-88.	S0053: 1	
HNHGD08	959494	7627	1 - 249	17379	Ala-24 to Glu-30.	S0053: 1 and L0603: 1.	
HNHGC92	792740	7628	109 - 285	17380	Asn-22 to Lys-31.	S0053: 1	
HNHGC91	790199	7629	103 - 225	17381	Ser-1 to Glu-9, Pro-15 to Thr-27, His-29 to Tyr-39.	S0053: 1	
HNHGC45	720747	7630	3 - 359	17382	Cys-20 to Ile-27, Thr-45 to Gly-51, Gly-93 to Gly-101.	L0617: 1, L0157: 1 and S0053: 1.	
HNHGC32	699286	7631	1 - 192	17383	Lys-36 to Tyr-41.	S0053: 1	
HNHGC21	670949	7632	58 - 423	17384	Gln-80 to Leu-87.	S0053: 1	
HNHGC20	859991	7633	14 - 247	17385	Arg-5 to Glu-10.	S0053: 1	
HNHGC19	668692	7634	2 - 250	17386		S0053: 1	
HNHGC08	962224	7635	53 - 271	17387	Gln-11 to Asp-19.	S0053: 1	
HNHGC07	953414	7636	44 - 328	17388	Ser-14 to Leu-20, Arg-62 to Gly-68.	S0053: 1	
HNHGB12	970726	7637	377 - 676	17389		L0761: 1, S0053: 1 and L0758: 1.	
HNHGA53	973803	7638	111 - 260	17390		S0053: 1	
HNHFX68	752305	7639	3 - 188	17391	Asp-19 to Glu-28, Ser-38 to Arg-44, Gly-51 to Lys-62.	S0053: 1 and L0592: 1.	
HNHFX08	959475	7640	287 - 448	17392		L0365: 1 and S0053: 1.	
HNHFX10	961275	7641	55 - 222	17393	Gln-20 to Glu-26, Ser-32 to Glu-47.	S0053: 1	
HNHFX08	959484	7642	33 - 218	17394	Ala-9 to Asn-17.	S0053: 1 and L0592: 1.	
HNHFX07	953403	7643	111 - 314	17395	Tyr-17 to His-22.	S0053: 1 and L0779: 1.	

HNHFV49	975415	7644	520 - 768	17396		AR061: 12, AR089: 5 S0053: 1		
HNHFV30	566339	7645	2 - 151	17397	Pro-23 to Trp-32.	AR051: 103, AR050: 100, AR054: 83 S0053: 1		
HNHFU64	937179	7646	264 - 467	17398	Pro-37 to Ala-47.	AR051: 11, AR061: 3, AR089: 2, AR050: 2, AR054: 1 S0053: 1		
HNHFU56	733513	7647	155 - 352	17399	Gln-6 to Ser-15, Pro-17 to Ala-29.	S0053: 1 and L0748: 1.		
HNHFU12	970882	7648	220 - 387	17400		S0053: 1 and L0608: 1.		
HNHFR69	757646	7649	256 - 429	17401		S0053: 1 and L0589: 1.		
HNHFP94	888666	7650	3 - 287	17402	Lys-47 to Pro-54.	AR051: 88, AR050: 84, AR054: 67 S0053: 1		
HNHFP89	786967	7651	129 - 284	17403		S0053: 1 and L0745: 1.		
HNHFP03	924606	7652	1 - 204	17404	Pro-23 to Gly-29.	L0766: 1 and S0053: 1.		
HNHFM74	506283	7653	1 - 270	17405	Gly-12 to Trp-17.	S0053: 1		
HNHFM54	486847	7654	341 - 514	17406	Lys-1 to Asp-9, Lys-15 to Gln-21, Glu-29 to Gly-34.	S0053: 1		
	490923	9635	631 - 329	19387				
HNHFL96	576414	7655	160 - 495	17407	Ser-1 to Lys-10, Gly-16 to Gly-27.	S0053: 1		
HNHFL28	973273	7656	347 - 469	17408	Ser-30 to Gly-38.	S0053: 1		
HNHFL24	903741	7657	28 - 480	17409	His-8 to Gly-18, Ala-39 to Gly-45, Pro-94 to Glu-101.	AR054: 20, AR050: 15, AR061: 7, AR089: 4, AR051: 1 S0053: 1		
HNHFL23	675942	7658	75 - 734	17410	Val-24 to Glu-29, Ser-62 to Ser-68, Ala-75 to Ser-81, Lys-138 to Phe-145.	L0740: 2 and S0053: 1.		
HNHFF79	638126	7659	153 - 281	17411		AR051: 21, AR050: 8 S0053: 1		

HNHFF30	692811	7660	2 - 178	17412	Asn-37 to Cys-43, Gly-50 to Phe-57.	S0053: 1 and L0748: 1.		
HNHFE01	916782	7661	186 - 308	17413		L0758: 2 and S0053: 1.		
HNHFD68	576448	7662	1 - 147	17414	Pro-19 to Gly-32.	AR050: 7, AR054: 6, AR051: 3 S0053: 1		
HNHFB21	842707	7663	9 - 125	17415	Arg-10 to Thr-20.	S0053: 1		
HNHEW83	781217	7664	256 - 498	17416	Lys-2 to Thr-8, Ser-12 to Trp-25, Trp-33 to Cys-39.	L0748: 2 and S0053: 1.		
HNHEW18	666524	7665	54 - 197	17417		S0053: 1, L0438: 1 and L0748: 1.	5	
HNHEU20	668909	7666	72 - 275	17418		S0053: 1 and L0740: 1.		
HNHEQ03	535701	7667	68 - 277	17419	Gly-34 to Ser-41.	S0053: 1		
	535815	9636	68 - 277	19388	Gly-34 to Ser-41.			
	923484	9637	74 - 283	19389	Gly-34 to Ser-41.			
HNHEP86	490390	7668	505 - 278	17420	Glu-1 to Ser-9, Lys-14 to Leu-20, Asp-44 to Gly-57.	S0053: 1		
	785285	9638	71 - 364	19390	Gln-1 to Ala-13, Pro-52 to Gly-57, Leu-84 to Gln-90, Pro-92 to Asp-98.			
HNHEL72	760706	7669	18 - 164	17421		S0053: 1 and L0589: 1.		
HNHEL34	706636	7670	248 - 553	17422	Gln-12 to Met-20, Pro-26 to Gly-31, Phe-39 to Asn-44, Glu-50 to Thr-64.	L0439: 2, S0053: 1 and L0751: 1.		
HNHEL27	506284	7671	114 - 380	17423	Arg-11 to Asn-20.	S0053: 1		
HNHEK69	757649	7672	244 - 402	17424		S0053: 1 and L0439: 1.		
HNHEJ78	800165	7673	20 - 154	17425		S0053: 1		
HNHEJ20	669763	7674	305 - 472	17426	Ser-1 to Trp-15.	S0053: 1 and L0439: 1.		
HNHEI90	888553	7675	22 - 168	17427	Arg-25 to Gln-34.	AR054: 16, AR050: 12, AR051: 8 S0053: 1		
HNHEI37	419752	7676	35 - 205	17428	Pro-46 to Met-51.	L0766: 1 and S0053: 1.		

HNHEH28	973296	7677	22 - 198	17429	Arg-5 to His-11, Thr-13 to Cys-22, Cys-50 to Thr-55.	L0617: 1 and S0053: 1.	
HNHEG71	760464	7678	23 - 190	17430	Leu-7 to Asp-17, Gly-19 to His-27, Pro-33 to Glu-49.	S0053: 1	
HNHEF53	576417	7679	201 - 362	17431	Met-18 to Cys-23.	S0053: 1	
HNHEF08	958854	7680	493 - 230	17432		S0053: 1	
	958883	9639	70 - 339	19391	Ser-46 to Ser-51.		
HNHEE03	924619	7681	351 - 485	17433		S0053: 1 and L0759: 1.	
HNHED88	576529	7682	3 - 206	17434		AR051: 22, AR054: 15, AR050: 11 S0053: 1	
HNHED18	666594	7683	450 - 599	17435	Ser-17 to Asp-23, Ile-32 to Arg-38.	L0749: 2, S0053: 1 and L0748: 1.	
HNHDZ25	973295	7684	109 - 330	17436	Thr-50 to Gly-55.	S0053: 1	
HNHDY14	542062	7685	151 - 396	17437		AR054: 14, AR051: 1, AR050: 1 S0053: 1 and L0759: 1.	
	753132	9640	156 - 380	19392			
HNHDX57	734933	7686	1 - 219	17438		S0053: 1 and L0752: 1.	
HNHDX30	692875	7687	302 - 454	17439		S0053: 1 and L0748: 1.	
HNHDW94	883870	7688	257 - 568	17440	Lys-8 to Pro-17, Leu-92 to Ala-99.	L0509: 1 and S0053: 1.	
HNHDW16	422903	7689	246 - 1	17441		L0589: 2 and S0053: 1.	
	661809	9641	91 - 339	19393	Arg-1 to Ser-17, Arg-35 to Ser-40, Gly-64 to Leu-74.		
HNHDV95	559341	7690	67 - 288	17442	Ala-19 to Leu-25.	AR054: 15, AR050: 3 S0053: 1	
	860083	9642	58 - 279	19394	Ala-19 to Leu-25.		
HNHDV93	792467	7691	2 - 349	17443		L0748: 4 and S0053: 1.	
HNHDV16	863116	7692	185 - 3	17444	Thr-30 to Thr-51.	AR051: 28, AR050: 23, AR054: 20 S0053: 1	
HNHDT83	974277	7693	55 - 198	17445		S0053: 1	

HNHDT33	576483	7694	2 - 166	17446		S0053: 1		
HNHDT32	573332	7695	3 - 122	17447	Ser-12 to Lys-24, Lys-29 to Arg-35.	S0053: 1		
HNHDT19	573355	7696	2 - 130	17448	Ser-20 to Pro-26.	S0053: 1		
HNHDT12	576464	7697	3 - 92	17449		S0053: 1		
HNHDT05	932223	7698	2 - 382	17450	Gly-14 to Arg-26, Thr-43 to Arg-58, Pro-63 to Gly-71, Lys-86 to Gly-95.	S0005: 2, S0053: 1 and L0589: 1.		
HNHDM15	660509	7699	215 - 427	17451	Thr-40 to Ser-46, Pro-48 to Pro-58, Ser-65 to Glu-70.	L0747: 2 and S0053: 1.		
HNHDM40	574312	7700	74 - 319	17452		S0053: 1		
HNHDM03	924895	7701	68 - 334	17453	Gln-1 to Leu-12, Ser-16 to His-21.	S0053: 1		
HNHDM07	953883	7702	92 - 379	17454		S0053: 1 and L0361: 1.		
HNHDM52	520297	7703	241 - 71	17455	Pro-49 to Lys-57.	AR050: 2, AR051: 0 S0053: 1		
HNHDM29	904546	7704	24 - 215	17456	Gly-1 to Gly-15, Gly-18 to His-26, Pro-43 to Gly-62.	S0053: 1	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HNHDM69	757760	7705	207 - 416	17457		S0053: 1 and L0756: 1.		
HNHDM84	782897	7706	317 - 105	17458		S0053: 1		
	782898	9643	99 - 290	19395	Val-36 to Gly-43.			

	782939	9644	453 - 265	19396	Thr-5 to Glu-11, Lys-28 to Arg-36.			
HNHCY96	796547	7707	428 - 697	17459	Thr-72 to Pro-77, Pro-82 to Phe-87.	S0053: 1		
HNHCY07	953878	7708	49 - 339	17460	Pro-1 to Val-7, Asp-19 to Tyr-25, Lys-39 to Phe-46.	S0053: 1 and L0780: 1.		
HNHCY06	936061	7709	40 - 150	17461		S0053: 1 and L0759: 1.		
HNHCU08	959944	7710	154 - 294	17462		S0053: 1 and L0599: 1.		
HNHCO94	796745	7711	145 - 267	17463		S0053: 1 and L0600: 1.		
HNHCO69	754189	7712	12 - 362	17464		S0053: 1 and L0777: 1.		
HNHCO39	705641	7713	55 - 294	17465	Arg-18 to Val-23.	S0053: 1 and L0592: 1.		
HNHCM69	757751	7714	196 - 366	17466	Cys-8 to Cys-16.	S0053: 1 and L0748: 1.		
HNHCJ11	964952	7715	89 - 211	17467	Leu-9 to Trp-14.	S0053: 1		
HNHC132	861673	7716	183 - 593	17468	Lys-17 to Thr-23, His-95 to Thr-101.	AR051: 23, AR050: 14, AR061: 10, AR054: 4, AR089: 3 S0053: 1		
	956105	9645	963 - 553	19397	Lys-17 to Thr-23, His-95 to Thr-101.			
HNHCG43	574074	7717	10 - 168	17469	Thr-31 to Gly-37.	S0053: 1		
HNHCG32	574080	7718	90 - 161	17470	Ser-6 to Lys-14.	S0053: 1		
HNHCD33	702679	7719	488 - 655	17471		L0748: 6 and S0053: 1.		
HNHCA27	668255	7720	268 - 465	17472		AR054: 16, AR051: 16, AR050: 3 S0053: 1		
HNHBZ39	860113	7721	114 - 284	17473		AR054: 19, AR050: 18, AR051: 13 S0053: 1		
HNHBX96	796539	7722	61 - 252	17474	Thr-8 to Phe-18, Ser-23 to Asn-34, Ala-37 to Leu-46.	S0053: 1 and L0748: 1.		
HNHBW54	583752	7723	186 - 299	17475		S0053: 1		
	840101	9646	235 - 2	19398	Arg-1 to Ala-9, Phe-18 to Asp-27.			
HNHBU02	920662	7724	74 - 280	17476		S0053: 1 and L0589: 1.		

HNHBO78	574093	7725	2 - 160	17477		S0053: 1	
HNHBK57	490789	7726	296 - 60	17478		S0053: 1	
	513489	9647	2 - 211	19399			
HNHB148	860125	7727	243 - 533	17479		S0053: 1	
HNHB102	918387	7728	686 - 474	17480		S0053: 1	
	919069	9648	314 - 3	19400	His-34 to Ser-44, Cys-80 to Glu-86, Pro-95 to Gly-101.		
HNHBG42	714044	7729	241 - 351	17481	Arg-21 to Gln-30.	S0053: 1, L0740: 1 and L0777: 1.	
HNHBF78	773747	7730	76 - 300	17482		S0053: 1 and L0589: 1.	
HNHBF47	949027	7731	923 - 501	17483	His-1 to Thr-14.	AR051: 11, AR054: 8, AR050: 7, AR061: 1, AR089: 0 S0053: 1	1
HNHBE75	766526	7732	82 - 243	17484	Cys-3 to Leu-20.	L0439: 2 and S0053: 1.	
HNHBD73	764293	7733	259 - 134	17485	His-1 to Tyr-7, Ser-17 to Gly-24.	S0053: 1	
HNHBC77	772452	7734	67 - 273	17486		S0053: 1 and L0750: 1.	
HNHAP69	574295	7735	58 - 270	17487	Asn-2 to Arg-9.	S0053: 1	
HNHAP55	574386	7736	2 - 163	17488	Ala-1 to His-11.	S0053: 1	
HNHAP32	574393	7737	99 - 281	17489		S0053: 1	
HNHAP08	959961	7738	132 - 239	17490		S0053: 1	
HNHAM81	574402	7739	1 - 90	17491	Asn-20 to Gln-30.	S0053: 1	
HNHAM80	574404	7740	56 - 160	17492		S0053: 1	
HNHAM33	571334	7741	3 - 95	17493	Thr-1 to Lys-6, Leu-22 to Leu-30.	L0633: 3 and S0053: 1.	
HNHAK41	890594	7742	2 - 166	17494		AR050: 14, AR051: 12, AR054: 2 S0053: 1	
HNHAI41	712605	7743	66 - 233	17495		L0745: 3 and S0053: 1.	
HNHAI07	954088	7744	1 - 168	17496	Arg-1 to Asp-16, Leu-27 to Gly-32.	L0761: 1 and S0053: 1.	
HNHAF61	742116	7745	189 - 686	17497	Pro-5 to Trp-10, Glu-62 to Gly-67, Ala-124 to Asn-129.	AR061: 6, AR089: 3 L0438: 2, L0439: 2, L0752: 2, L0365: 1 and S0053: 1.	



	955094	9649	378 - 1	19401	Thr-56 to Pro-64, Pro-77 to Thr-87, Thr-95 to Glu-100, Asp-112 to Thr-118.			
HNHAE19	527975	7746	429 - 112	17498	Arg-24 to Lys-37, Ser-59 to Pro-70.	L0766: 5, L0788: 1, S0053: 1 and L0747: 1.		
HNHAB36	596822	7747	913 - 653	17499	Arg-19 to Arg-26, Gly-44 to Thr-55, Glu-68 to His-75, Trp-82 to Asp-87.	S0053: 1		
	946565	9650	199 - 2	19402				
	946634	9651	3 - 170	19403	Thr-6 to Cys-17, Gly-23 to Gly-28.			
HNHAB15	973675	7748	420 - 623	17500	Cys-1 to Ser-6.	S0053: 1		
HNGPR43	860142	7749	2 - 304	17501		S0428: 1 and L0600: 1.		
HNGPP74	974046	7750	303 - 557	17502	Gln-1 to Ser-6, Asp-30 to Lys-35.	S0428: 1		
HNGPN54	947104	7751	478 - 113	17503	Pro-16 to Ala-31, Pro-59 to Gly-85, Pro-87 to Pro-96.	AR061: 4, AR089: 1 S0428: 1		
HNGPM65	972821	7752	64 - 270	17504	Arg-1 to Lys-6, Ile-14 to Asn-22.	S0428: 1		
HNGPL75	950134	7753	870 - 559	17505		AR061: 7, AR089: 3 L0766: 1, S0428: 1 and L0592: 1.		
HNGPL05	974049	7754	43 - 270	17506		S0428: 1		
HNGPI87	860162	7755	229 - 426	17507		S0428: 1 and L0589: 1.		
HNGPH83	974045	7756	1 - 147	17508	Tyr-4 to Ile-16.	S0428: 1		
HNGOZ40	969158	7757	13 - 330	17509	Gln-5 to Phe-15, Pro-32 to Ala-39, Pro-49 to Trp-67.	S0428: 1 and L0588: 1.		
HNGOY68	860169	7758	2 - 343	17510	Gly-21 to Leu-30, Pro-51 to Ser-56, Thr-62 to Ala-67.	L0761: 1 and S0428: 1.		
HNGOY32	954991	7759	243 - 590	17511		L0365: 1 and S0428: 1.		
HNGOP63	973415	7760	126 - 557	17512	Pro-22 to Leu-30.	S0428: 1		

HNGOP40	860182	7761	102 - 326	17513	Ser-7 to Ala-14, Arg-25 to His-31, Pro-48 to Gly-62, Gln-68 to Lys-75.	S0428: 1 and L0589: 1.		
HNGO088	860179	7762	95 - 271	17514		S0428: 1 and L0748: 1.		
HNGON56	974038	7763	520 - 738	17515	Glu-1 to Leu-11.	S0428: 1		
HNGON24	860183	7764	205 - 468	17516		L0369: 1 and S0428: 1.		
HNGOK04	972752	7765	3 - 611	17517	Thr-6 to Ser-13, Leu-52 to Gly-61, Arg-66 to Arg-72, Arg-131 to Pro-136, Arg-145 to Tyr-150, Gly-163 to Ser-168, Ala-186 to Gly-193.	S0428: 1		
HNGOF70	860195	7766	7 - 243	17518		L0766: 2 and S0428: 1.		
HNGNY72	860198	7767	167 - 385	17519	Met-20 to Gly-26.	L0385: 1 and S0428: 1.		
HNGNY16	806017	7768	312 - 590	17520	Pro-35 to Trp-43.	S0428: 1 and L0756: 1.		
HNGNY02	918626	7769	42 - 470	17521	Gln-1 to Gly-9, Gly-40 to Asn-53, Arg-67 to Gln-72, His-100 to Trp-107, Arg-135 to Pro-140.	L0385: 1, L0365: 1 and S0428: 1.		
HNGNX66	974035	7770	391 - 618	17522	Gly-1 to Val-30, Lys-37 to Glu-53.	S0428: 1		
HNGNU85	974037	7771	262 - 594	17523	Arg-27 to Ser-32.	S0428: 1		
HNGNS91	973432	7772	245 - 496	17524	Lys-30 to Asp-37.	S0428: 1		
HNGNN81	974124	7773	96 - 287	17525	Leu-3 to Gly-13, Ala-17 to Pro-26, Glu-44 to Lys-49.	S0428: 1		
HNGNN01	915226	7774	282 - 512	17526		S0428: 1 and L0758: 1.		
HNGNJ46	860212	7775	135 - 470	17527	Leu-12 to Cys-19, Gln-27 to Asn-35.	L0779: 2, L0663: 1, S0428: 1 and L0747: 1.		
HNGNI78	860216	7776	186 - 380	17528	Pro-38 to Trp-44.	S0428: 1 and L0596: 1.		
HNGND75	974968	7777	169 - 450	17529	Pro-3 to Gln-13, Gly-39 to Cys-44, Thr-57 to Trp-66.	S0428: 1		

HNGND01	915294	7778	446 - 580	17530	Thr-81 to Ser-87.	S0428: 1 and L0749: 1.	
HNGNA49	974907	7779	371 - 592	17531		S0428: 1	
HNGMY91	974056	7780	282 - 575	17532	Val-23 to Gly-29, Ser-48 to Cys-58.	S0428: 1	
HNGMW65	950173	7781	295 - 26	17533	Ile-26 to Thr-37.	AR089: 119, AR061: 16 S0428: 1	
HNGMT40	930430	7782	2 - 151	17534		L0662: 1, S0428: 1 and L0759: 1.	
HNGMM11	966099	7783	40 - 375	17535	Pro-1 to Leu-13, Pro-19 to Pro-27.	S0428: 1 and L0777: 1.	
HNGML12	934389	7784	3 - 179	17536		L0761: 1, L0766: 1, S0428: 1 and L0756: 1.	
HNGMF02	955660	7785	394 - 642	17537		L0809: 2, L0783: 1, L0791: 1, S0428: 1, L0740: 1 and L0752: 1.	
HNGME04	927020	7786	200 - 592	17538		S0428: 1, L0748: 1 and L0749: 1.	
HNGMD92	790887	7787	71 - 247	17539	Arg-39 to Asp-56.	S0428: 1 and L0361: 1.	
HNGMD48	974358	7788	215 - 400	17540		S0428: 1	
HNGMC01	915310	7789	525 - 830	17541	Gln-50 to Ser-61.	L0747: 3 and S0428: 1.	
HNGLY12	968919	7790	260 - 439	17542	Thr-8 to Leu-13, Glu-22 to Asn-32.	S0428: 1 and L0758: 1.	
HNGLY08	948825	7791	81 - 425	17543	Asn-80 to Ser-86, Phe-98 to Glu-105.	AR051: 17, AR050: 9, AR054: 7 S0428: 1	
HNGLS90	787446	7792	253 - 438	17544	Ala-26 to Ala-31, Ser-57 to Arg-62.	S0428: 1, L0748: 1 and L0749: 1.	
HNGLR54	972812	7793	314 - 508	17545	Pro-20 to Gln-25, Glu-55 to Ala-60.	S0428: 1	
HNGLO21	974067	7794	165 - 479	17546	Pro-22 to Thr-28, Arg-35 to Pro-44.	S0428: 1	
HNGLL07	952236	7795	3 - 146	17547		S0428: 1 and L0731: 1.	
HNGLK36	974584	7796	402 - 557	17548	Gln-7 to Asp-21, Glu-27 to Gly-37.	S0428: 1	
HNGKY10	963459	7797	58 - 156	17549		L0659: 1 and S0428: 1.	

HNGKS34	974368	7798	189 - 356	17550	Glu-36 to Pro-42.	S0428: 1	
HNGKQ80	860306	7799	90 - 377	17551	Val-20 to Glu-27.	S0428: 1 and L0589: 1.	
HNGKO32	860307	7800	118 - 414	17552	Pro-4 to Ala-9, Val-18 to Trp-30, His-48 to Leu-59, Phe-91 to Asn-99.	S0428: 1, L0748: 1 and L0749: 1.	
HNGKM74	942758	7801	2 - 988	17553	Phe-148 to Lys-155, Arg-162 to Glu-168, Arg-205 to Thr-213, Pro-235 to Leu-241.	AR051: 17, AR050: 17, AR061: 7, AR089: 3, AR054: 3 L0800: 1 and S0428: 1.	
HNGKL24	974360	7802	319 - 540	17554		S0428: 1	
HNGKJ02	918622	7803	375 - 647	17555	Gly-23 to Pro-28, Pro-31 to Asp-36, Ala-38 to Trp-59, His-71 to Gln-76, Lys-79 to Glu-86.	S0428: 1 and L0731: 1.	
HNGKH07	952210	7804	104 - 247	17556	Pro-2 to Thr-9.	L0655: 1 and S0428: 1.	
HNGKG03	922036	7805	120 - 323	17557		L0518: 1 and S0428: 1.	
HNGKD49	974364	7806	295 - 444	17558		S0428: 1	
HNGKC69	834922	7807	137 - 418	17559	Lys-29 to Thr-40, Arg-58 to Leu-65, Gln-67 to Arg-80, Ser-85 to Asp-92.	AR051: 14, AR054: 4, AR050: 1 S0428: 1	
HNGKC21	974581	7808	102 - 233	17560		S0428: 1	
HNGKC06	934309	7809	3 - 431	17561	Ser-21 to Lys-29, Gln-31 to His-37.	S0428: 1 and L0758: 1.	
HNGKA11	966117	7810	118 - 300	17562		L0787: 1, S0428: 1 and L0592: 1.	
HNGJV82	778921	7811	305 - 439	17563	Gly-14 to Arg-21, Gln-31 to Gln-37.	S0052: 1 and L0592: 1.	
HNGJR05	860357	7812	212 - 460	17564	Ser-16 to Asp-27, Arg-37 to Gly-44.	S0052: 1 and L0589: 1.	
HNGJQ96	796414	7813	37 - 282	17565	Thr-24 to Thr-29, Thr-42 to Lys-47, Ala-52 to Asn-64.	S0052: 1	
HNGJQ36	708121	7814	45 - 242	17566	Pro-46 to Gly-53.	S0052: 1	

HNGJQ08	959511	7815	26 - 103	17567			S0052: 1		
HNGJL47	720363	7816	3 - 404	17568	Arg-31 to Ser-37, Pro-39 to Pro-45.		L0771: 8, L0591: 2, L0788: 1 and S0052: 1.		
HNGJK64	746615	7817	22 - 147	17569	Ser-19 to Leu-26, Leu-30 to Gln-35.		S0052: 1		
HNGJK63	839947	7818	2 - 181	17570			S0052: 1 and L0758: 1.		
HNGJK40	711219	7819	138 - 380	17571	Thr-26 to Gly-31.		S0052: 1		
HNGJI40	711211	7820	2 - 385	17572	Ala-6 to Gly-11, Phe-21 to Leu-28, Cys-45 to Ile-53.		S0052: 1		
HNGJI04	615285	7821	3 - 164	17573	Gly-34 to Phe-41.		S0052: 1		
HNGJG75	942946	7822	90 - 662	17574	His-1 to Phe-14, Gln-18 to Arg-24, Ser-44 to His-49, Phe-121 to Asp-131, Ser-149 to Thr-174.		AR061: 4, AR089: 1 S0052: 1		
	951158	9652	469 - 251	19404					
HNGJG35	422897	7823	393 - 253	17575			S0052: 1		
HNGJE38	495689	7824	630 - 109	17576			S0052: 1 and L0758: 1.		
	860403	9653	95 - 379	19405	Pro-39 to Cys-52.				
HNGJE23	600366	7825	634 - 467	17577	Tyr-17 to Lys-22, Gly-46 to Thr-54.		S0052: 1		
	860413	9654	463 - 296	19406	Lys-6 to Leu-12.				
HNGJE08	973790	7826	392 - 547	17578	Pro-40 to Glu-50.		S0052: 1		
HNGJE01	973797	7827	392 - 529	17579			S0052: 1		
HNGJC68	888447	7828	103 - 348	17580			AR051: 86, AR050: 64, AR054: 54 S0052: 1		
HNGJC29	695660	7829	96 - 425	17581	Trp-1 to Arg-8, Gln-14 to Thr-21, Ser-39 to Gly-51, Arg-65 to Gln-72, Ser-80 to Glu-85, His-90 to Gly-96.		S0052: 1 and L0747: 1.		
HNGJB49	723004	7830	3 - 302	17582	His-7 to Gly-22, His-62 to Asn-71.		L0748: 5, S0052: 1 and L0749: 1.		

HNGJA75	888461	7831	95 - 256	17583	Thr-17 to Leu-26, Gly-47 to Gly-53.	AR051: 25, AR050: 16, AR054: 1 S0052: 1		
HNGIX71	760398	7832	3 - 293	17584	His-30 to Gln-37.	L0748: 2 and S0052: 1.		
HNGIW45	717698	7833	1 - 198	17585	Ser-46 to Lys-56.	S0052: 1		
HNGIS92	792748	7834	1 - 540	17586				
HNGIS70	757216	7835	373 - 621	17587	Ser-66 to Ser-73.	S0052: 1 and L0439: 1.		
HNGIS02	920221	7836	327 - 542	17588	Ser-15 to Lys-24.	S0052: 1 and L0740: 1.		
HNGIR10	964715	7837	317 - 496	17589	Pro-7 to Phe-12.	L0769: 1 and S0052: 1.		
HNGIQ78	772866	7838	112 - 324	17590	Asp-6 to Ser-20, Arg-46 to Phe-53, Pro-60 to Leu-67.	L0769: 3 and S0052: 1. S0052: 1		
	773431	9655	586 - 365	19407				
HNGIQ71	495771	7839	487 - 176	17591	Ala-1 to Cys-7, Gln-21 to Gly-40, Pro-49 to Gly-54, Ser-72 to Trp-91.	S0052: 1		
	860506	9656	308 - 658	19408				
HNGIP47	720374	7840	247 - 450	17592	His-15 to Met-25.	S0052: 1 and L0589: 1.		
HNGIP27	860515	7841	210 - 476	17593		S0052: 1		
HNGIO64	487439	7842	231 - 401	17594		S0052: 1		
	927636	9657	396 - 280	19409	Ala-15 to Arg-22.			
HNGIOS2	727196	7843	207 - 422	17595		S0052: 1 and L0756: 1.		
HNGIL94	793171	7844	123 - 326	17596	Pro-15 to Arg-22.	S0052: 1		
HNGIL84	781970	7845	50 - 340	17597		L0747: 2 and S0052: 1.		
HNGIL82	812699	7846	174 - 368	17598	Ile-3 to Trp-14, Glu-54 to Asn-65.	S0052: 1		
HNGIL51	725003	7847	1 - 249	17599	Gly-1 to Glu-8, Thr-37 to Arg-47, Pro-57 to Arg-62, Pro-78 to Thr-83.	S0052: 1	2p11.2	178640, 216900
HNGIL22	860525	7848	76 - 306	17600	Ala-1 to Thr-6.			
HNGIJ51	868068	7849	178 - 348	17601	Thr-9 to Cys-14, Lys-38 to Arg-45.	L0527: 1 and S0052: 1. L0752: 2 and S0052: 1.		
HNGHY44	973977	7850	245 - 424	17602	Asp-25 to Gly-32.	S0052: 1		

HNGHO94	793271	7851	1 - 219	17603	Asn-1 to His-10, Pro-53 to Ala-72.	S0052: 1		
HNGHM61	576221	7852	39 - 236	17604	Pro-4 to His-18, Pro-28 to Arg-39, Gln-53 to Gly-58.	S0052: 1		
HNGHL46	860541	7853	291 - 476	17605		S0052: 1		
HNGHJ01	916757	7854	1 - 204	17606	Gln-1 to Asp-9, Asp-19 to Gly-25, His-58 to Ala-65.	S0052: 1 and L0758: 1.		
HNGHG39	860554	7855	3 - 248	17607	His-1 to Met-8.	S0052: 1 and L0366: 1.		
HNGHD68	576315	7856	246 - 1	17608		S0052: 1		
HNGGV02	920377	7857	212 - 430	17609		S0052: 1		
HNGGT08	959649	7858	44 - 193	17610		S0052: 1 and L0748: 1.		
HNGGP91	576251	7859	1 - 360	17611		L0743: 2 and S0052: 1.		
HNGGP55	578450	7860	91 - 186	17612		S0052: 1		
HNGGL74	765644	7861	828 - 487	17613	Tyr-21 to Tyr-26, His-36 to Lys-44, Leu-70 to Gly-76.	AR050: 136, AR054: 117, AR051: 105 S0052: 1		
HNGGF86	860568	7862	247 - 426	17614	Thr-1 to His-11.	S0052: 1		
HNGGB58	738213	7863	16 - 156	17615		S0052: 1 and L0754: 1.		
HNGGB28	703315	7864	2 - 199	17616	Ala-1 to Ala-10, Pro-12 to Ser-19, Asp-31 to Gly-44, Pro-49 to Arg-66.	S0052: 1		
HNGFX89	506492	7865	202 - 468	17617	Asn-13 to Ala-19.	AR050: 19, AR051: 15, AR054: 8 S0052: 1		
	578679	9658	34 - 144	19410				
	578680	9659	529 - 413	19411				
HNGFX75	608695	7866	394 - 630	17618		S0052: 1		
HNGFU33	702584	7867	472 - 663	17619	Gly-2 to Phe-8, Pro-17 to Asn-22, Met-56 to Gly-62.	L0747: 3, L0803: 2, L0659: 2, L0666: 2, L0662: 1, L0546: 1, S0052: 1, L0750: 1, L0779: 1, L0752: 1 and L0758: 1.		
HNGFT02	920480	7868	212 - 319	17620		S0052: 1 and L0747: 1.		

HNGFR06	935821	7869	2 - 421	17621	Leu-41 to Glu-52.	S0052: 1, L0439: 1 and L0754: 1.		
HNGFP92	842276	7870	439 - 621	17622	Gly-1 to Asp-7, Ala-17 to Gly-22.	S0052: 1		
	889744	9660	140 - 442	19412	Thr-3 to Ala-33, Ala-44 to Cys-49, Phe-64 to Trp-71, Ala-84 to Arg-89, Ala-94 to Ser-101.			
HNGFN70	872950	7871	3 - 191	17623	Ser-10 to Asn-17, Gly-32 to Lys-44.	AR051: 41, AR050: 40, AR054: 33 S0052: 1		
HNGFM17	664280	7872	345 - 635	17624	Leu-11 to Glu-19, Gly-27 to Ala-36, Ser-45 to Ser-59.	S0052: 1 and L0748: 1.		
	703419	7873	1 - 309	17625	Thr-2 to Trp-9, Val-33 to Leu-38, Gly-43 to Cys-51.	L0518: 1 and S0052: 1.		
HNGFI11	967304	7874	1 - 285	17626	Glu-63 to Ser-68, Asp-75 to Pro-82.	L0517: 1 and S0052: 1.		
HNGFH90	789066	7875	45 - 317	17627	Gln-11 to Gln-16, Ser-24 to Arg-29, Ser-39 to Gly-45.	S0052: 1 and L0594: 1.		
	738240	7876	1 - 201	17628	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	L0748: 2 and S0052: 1.		
HNGFH30	823363	7877	2582 - 2280	17629	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	AR050: 17, AR054: 1 S0052: 1		
	824134	9661	227 - 649	19413	Lys-30 to Met-35, Pro-49 to Gly-56.			
HNGFG10	854048	9662	2 - 79	19414	Lys-1 to Leu-12.			
	968059	7878	800 - 1042	17630	Ser-64 to His-69.	L0747: 3, L0589: 2 and S0052: 1.		
HNGFF50	941480	7879	1 - 342	17631	Ala-3 to Thr-11, Ala-33 to His-43, Gly-67 to Leu-74.	S0052: 1		



HNGFE75	486855	7880	290 - 502	17632	Pro-96 to His-102, Gln-104 to Thr-114.			
	490615	9663	493 - 89	19415	Glu-39 to Gly-46, Ser-56 to Arg-64.		S0052: 1	
	871493	7881	108 - 470	17633	Leu-10 to Gln-17.			
HNGFE58					Pro-17 to Trp-22, Ile-26 to Gly-31, Ala-35 to Gly-46, Asp-49 to Glu-88, Met-105 to Pro-113.		S0052: 1 and L0596: 1.	
	927579	7882	101 - 250	17634	Trp-17 to Met-23, Gly-25 to Asn-40, Phe-43 to Arg-48.		L0775: 1 and S0052: 1.	
HNGFA18	666626	7883	102 - 395	17635	Ser-6 to Ser-13, Leu-20 to Pro-27.		S0052: 1, L0779: 1 and L0731: 1.	
HNGEY55	888324	7884	1 - 375	17636	Gly-1 to Trp-9, Gly-45 to Asp-57, Gly-64 to Trp-81.		AR050: 23, AR051: 19, AR054: 13 S0052: 1	
	868073	7885	248 - 460	17637	Glu-1 to Asp-9.		L2245: 1 and S0052: 1.	
HNGEX10	860615	7886	129 - 452	17638	Ala-1 to Ser-6, Pro-24 to His-36, Val-80 to Asn-88, Gly-94 to Gln-100.		L0773: 1 and S0052: 1.	
HNGEW38	964163	9664	569 - 159	19416	Pro-19 to Gln-25.			
	573234	7887	298 - 690	17639	Trp-7 to Pro-12, Leu-38 to Lys-44, Thr-69 to Arg-76, Leu-93 to Ser-99, His-115 to Ser-124.		S0052: 1 and L0742: 1.	123620, 188826, 600850, 601669
	669811	7888	320 - 535	17640	Glu-6 to Lys-22, Ser-42 to Ser-55, Ser-58 to Ala-65.		L0754: 2 and S0052: 1.	
HNGET91	789373	7889	3 - 377	17641	His-1 to Ile-16.		L0754: 2 and S0052: 1.	
HNGER86	578910	7890	3 - 263	17642	Gln-1 to Ala-7, Trp-15 to Thr-21.		S0052: 1	
HNGER73	578909	7891	10 - 324	17643	Gly-11 to Pro-17,		S0052: 1	

							Trp-31 to Trp-38, Ser-45 to Met-51.				
HNGER62	578922	7892	107 - 307	17644			Gln-6 to Arg-18.	S0052: 1			
HNGER61	578907	7893	116 - 325	17645			Ser-16 to Thr-24, Ala-37 to Ser-49.	S0052: 1			
HNGER50	576479	7894	60 - 230	17646			Lys-8 to Cys-14.	S0052: 1			
HNGER38	578908	7895	1 - 138	17647			Gly-1 to Cys-7, Asp-23 to Gly-31, Cys-34 to Asn-40.	S0052: 1			
HNGER26	860623	7896	127 - 384	17648				S0052: 1			
HNGEO79	951489	7897	200 - 640	17649			Gln-41 to Asp-48, Ser-67 to Leu-72, Thr-79 to Ser-84, Ile-96 to Ser-103, Arg-120 to Ser-127.	AR061: 46, AR089: 19, AR051: 12, AR054: 10, AR050: 9 S0052: 1 and L0758: 1.			
HNGEN04	586457	7898	30 - 302	17650			Arg-1 to Gly-13, His-19 to Gly-24.	AR050: 63, AR051: 54, AR054: 40 S0052: 1			
HNGEK57	734923	7899	92 - 307	17651				S0052: 1 and L0592: 1.			
HNGEK16	578914	7900	2 - 172	17652			Ala-1 to Asp-9.	S0052: 1			
HNGEI44	800199	7901	13 - 345	17653			Pro-10 to Phe-15, Ala-59 to Pro-66, Pro-69 to Gln-85.	S0052: 1			
HNGEI11	967314	7902	121 - 276	17654				S0052: 1 and L0589: 1.			
HNGEG07	953658	7903	274 - 411	17655			Lys-26 to His-46.	S0052: 1 and L0589: 1.			
HNGEF81	570236	7904	2 - 220	17656			Glu-3 to Asp-13, Pro-18 to His-39.	S0052: 1			
	590251	9665	483 - 731	19417			Gly-10 to Asn-20, Glu-61 to Gly-79.				
	860649	9666	246 - 560	19418			Asp-10 to Gly-16.				
HNGEE10	968043	7905	72 - 251	17657				S0052: 1 and L0589: 1.			
HNGED92	654085	7906	257 - 3	17658			Ser-1 to Ile-7, Pro-32 to His-38, Pro-60 to Ala-69, Arg-71 to Gly-79.	S0052: 1			
	846048	9667	56 - 265	19419							

HNGED46	838885	7907	259 - 441	17659	Glu-29 to Leu-34, Gly-43 to Lys-50.	S0052: 1		
HNGEB84	783132	7908	83 - 235	17660	Arg-31 to Ala-37.	S0052: 1 and L0748: 1.		
HNGEA17	561293	7909	1 - 261	17661	Leu-8 to Arg-15, Gly-72 to Leu-81.	S0052: 1		
HNGDZ93	888677	7910	1 - 132	17662	Ile-20 to Asn-25, Pro-33 to Ser-43.	AR051: 21, AR054: 7, AR050: 1 S0052: 1		
HNGDW53	973311	7911	153 - 380	17663		S0052: 1		
HNGDW19	502499	7912	233 - 448	17664		S0052: 1		
	511193	9668	602 - 261	19420	His-10 to Lys-19, Arg-21 to Cys-29, Pro-31 to Ser-41, Gln-47 to Trp-54, Ala-57 to Gly-69, Gln-84 to Phe-102.			
HNGDV38	572912	7913	50 - 136	17665		S0052: 1		
HNGDV26	572906	7914	70 - 249	17666	Pro-24 to Arg-38.	S0052: 1		
HNGDV15	572902	7915	3 - 275	17667	Ser-1 to Asn-16, Asn-27 to Gln-41.	S0052: 1		
HNGDV02	920504	7916	3 - 167	17668	Ser-24 to Ser-35.	S0052: 1		
HNGDV01	916989	7917	73 - 204	17669	Gln-16 to His-27, Ala-32 to Cys-37.	S0052: 1		
HNGDS21	396889	7918	538 - 404	17670	Ile-40 to Arg-45.	S0052: 1		
	670757	9669	151 - 291	19421	Pro-32 to Trp-37.			
HNGDR65	572896	7919	116 - 223	17671	Asp-1 to Ser-7.	S0052: 1		
HNGDQ68	753164	7920	4 - 318	17672	Gly-1 to Gly-8, Thr-16 to Gly-25, Gly-65 to Glu-80.	S0052: 1 and L0592: 1.		
HNGDQ56	733550	7921	7 - 270	17673	Phe-64 to Arg-71, Gln-77 to His-83.	S0052: 1 and L0361: 1.		
HNGDO68	753580	7922	3 - 107	17674		S0052: 1 and L0748: 1.		
HNGDO54	521883	7923	225 - 368	17675	Lys-9 to Leu-14.	S0052: 1		
HNGDO53	574450	7924	68 - 217	17676		S0052: 1		
HNGDO52	868772	7925	1 - 192	17677	Gly-9 to Gly-15, Pro-33 to Pro-40.	S0052: 1		

HNGDO40	574449	7926	166 - 2	17678	Pro-1 to Lys-11.	S0052: 1	
HNGDO30	574446	7927	45 - 131	17679	Glu-24 to Ser-29.	S0052: 1	
HNGDO29	526804	7928	186 - 347	17680	Gln-11 to Gln-17.	S0052: 1	
HNGDO18	526514	7929	122 - 238	17681	Arg-15 to Glu-24.	S0052: 1	
HNGDO06	936059	7930	136 - 261	17682	Ser-15 to Phe-22, Ala-35 to Arg-41.	S0052: 1	
HNGDO05	932400	7931	51 - 125	17683		S0052: 1	
HNGDO04	523469	7932	219 - 320	17684	Leu-13 to Arg-19.	S0052: 1	
HNGDM11	967512	7933	391 - 534	17685		L0766: 1, S0052: 1 and L0754: 1.	
HNGDL51	860671	7934	1 - 258	17686	Asn-6 to Ser-15, Pro-29 to Ser-34, Ser-49 to Arg-54.	AR054: 26, AR050: 23, AR051: 22 S0052: 1	
HNGDF94	796744	7935	24 - 128	17687		S0052: 1	
HNGDF70	506694	7936	87 - 206	17688		S0052: 1	
HNGDF58	506693	7937	19 - 315	17689	Glu-36 to Ala-46, Phe-50 to Cys-56.	L0748: 2 and S0052: 1.	
HNGDF38	574349	7938	112 - 240	17690	Asp-1 to Asn-8.	S0052: 1	
HNGDF10	968240	7939	135 - 350	17691		S0052: 1	
HNGDE79	781680	7940	269 - 403	17692	Glu-35 to Leu-41.	S0052: 1 and L0748: 1.	
HNGDE74	765812	7941	1 - 120	17693		L0748: 2 and S0052: 1.	
HNGDD27	860680	7942	91 - 252	17694	Met-26 to Ser-32.	S0052: 1	
HNGDD03	924933	7943	59 - 202	17695	Arg-6 to Asn-12.	S0052: 1	
HNGDD02	920675	7944	70 - 186	17696		S0052: 1	
HNGDB78	772804	7945	1 - 195	17697		S0052: 1	
HNGDB61	742043	7946	177 - 452	17698		S0052: 1 and L0589: 1.	
HNGDB59	688019	7947	33 - 143	17699	Asn-1 to Lys-12.	S0052: 1	
HNGDB54	574359	7948	12 - 191	17700		S0052: 1	
HNGDB40	574346	7949	3 - 110	17701	Lys-6 to Arg-12.	S0052: 1	
HNGDB16	574352	7950	2 - 100	17702	Lys-20 to Gly-25, Arg-27 to Thr-33.	S0052: 1	
HNGDB04	576460	7951	2 - 115	17703	Thr-4 to Ala-11.	S0052: 1	
HNGDA08	959964	7952	180 - 455	17704	Ser-1 to Gly-6, Arg-11 to Trp-20.	L0770: 1 and S0052: 1.	
HNGCZ54	730895	7953	62 - 292	17705		S0052: 1 and L0746: 1.	

HNGCY60	827144	7954	1 - 447	17706	Lys-1 to Ser-8.	S0052: 1 and L0747: 1.	
HNGCY10	968247	7955	121 - 246	17707	Ala-30 to Ser-40.	L0766: 1 and S0052: 1.	
HNGCQ38	544484	7956	302 - 87	17708	Arg-33 to Phe-38.	S0052: 1	
	860692	9670	35 - 226	19422			
HNGCP14	417271	7957	1 - 258	17709		S0052: 1, L0748: 1 and L0731: 1.	
HNGCO71	663340	7958	271 - 2	17710	Lys-6 to Gly-12, Pro-40 to Asn-47.	S0052: 1	
	889333	9671	746 - 510	19423			
	889334	9672	3 - 185	19424			
	889335	9673	2 - 145	19425			
HNGCO15	494338	7959	200 - 3	17711	Arg-11 to Leu-17.	S0052: 1	
	519229	9674	1 - 132	19426	Gly-10 to Phe-19.		
	825388	9675	1 - 255	19427			
	704547	7960	219 - 410	17712		L0743: 2 and S0052: 1.	
HNGCG39	961700	7961	803 - 1195	17713	Ser-1 to Cys-10, Gly-21 to Asp-26.	S0052: 1	
HNGCE81	971688	9676	576 - 184	19428	Ser-1 to Cys-10, Gly-21 to Asp-26.		
	971689	9677	143 - 331	19429	Arg-1 to Trp-31, Pro-33 to Arg-50, Leu-52 to Arg-60.		
	971690	9678	261 - 563	19430	Thr-27 to Ala-34, Arg-36 to Arg-44, Pro-89 to Ser-100.		
	860699	7962	536 - 745	17714	Gly-8 to Glu-18.	AR051: 24, AR054: 9, AR050: 3 S0052: 1	
HNGCE40	638114	7963	192 - 419	17715	Pro-39 to Ser-47.	S0052: 1	
HNGCC02	917319	9679	186 - 413	19431			
	953894	7964	32 - 277	17716	Ala-30 to Lys-35.	S0052: 1 and L0749: 1.	
HNGBW07	494334	7965	263 - 96	17717	Glu-43 to Tyr-51.	S0052: 1	
HNGBS77	860721	9680	769 - 975	19432	Asn-1 to Lys-6.		
	574401	7966	76 - 291	17718	Thr-20 to Gly-27.	AR051: 11, AR054: 8, AR050: 1	

HNGBO01	921413	7967						S0052: 1			
HNGBN12	920949	7968	1 - 144	17719			Ser-70 to Trp-77.	S0052: 1 and L0759: 1. L0800: 1, S0052: 1 and L0758: 1.			
HNGBL40	880778	7969	72 - 356	17721				S0052: 1 and L0361: 1.			
HNGBF25	678767	7970	331 - 507	17722			Pro-15 to Leu-22.	S0052: 1 and L0745: 1.			
HNGAZ70	757413	7971	138 - 359	17723			Pro-69 to Ser-74.	S0052: 1 and L0754: 1.			
HNGAZ56	733631	7972	186 - 416	17724			Asn-8 to Lys-14, Arg-42 to Arg-48, Ile-50 to Gly-55.	L0747: 2 and S0052: 1.			
HNGAZ08	959977	7973	242 - 436	17725				L0766: 1, S0052: 1 and L0779: 1.			
HNGAX93	792525	7974	198 - 1	17726				S0052: 1 and L0749: 1.			
HNGAW50	723632	7975	3 - 107	17727				L0748: 2, S0052: 1 and L0749: 1.			
HNGAV20	669901	7976	1 - 186	17728				L0748: 4, L0659: 1 and S0052: 1.			
HNGAR02	920736	7977	105 - 332	17729			Arg-25 to Glu-41.	L0375: 1, L0365: 1 and S0052: 1.			
HNGAQ75	766512	7978	3 - 149	17730			Arg-6 to Leu-13.	S0052: 1			
HNGAQ73	574649	7979	1 - 150	17731				S0052: 1			
HNGAQ49	574652	7980	25 - 171	17732				S0052: 1			
HNGAQ38	574658	7981	3 - 125	17733			Pro-10 to Thr-19.	S0052: 1			
HNGAQ37	575492	7982	3 - 149	17734			Val-22 to Ser-34.	S0052: 1			
HNGAQ14	574660	7983	27 - 95	17735			Pro-1 to Phe-8.	S0052: 1			
IINGAQ02	920756	7984	5 - 115	17736			Gln-10 to Gln-18, His-20 to Asn-27.	S0052: 1			
HNGAQ01	921434	7985	3 - 161	17737			Pro-16 to Gly-25.	S0052: 1			
HNGAP69	513808	7986	406 - 666	17738				S0052: 1			
	537606	9681	417 - 40	19433							
HNGAM31	426200	7987	287 - 39	17739			Thr-46 to Ser-54.	S0052: 1			
	860765	9682	117 - 374	19434							
HNGAJ78	773425	7988	281 - 637	17740			Pro-7 to Ser-14.	AR054: 44, AR050: 36, AR051: 5 S0052: 1			

HNGAD20	888315	9683	1 - 219	19435			AR051: 23, AR054: 12, AR050: 3 S0052: 1		
	890591	7989	3 - 158	17741					
HNFJ67	751605	7990	75 - 260	17742	Glu-48 to Ala-54.		H0271: 1 and L0599: 1.		
HNFJB08	959428	7991	326 - 520	17743	Asn-1 to Leu-14, Lys-25 to Arg-30.		H0271: 1, L0748: 1 and L0758: 1.		
HNFY76	767681	7992	143 - 316	17744			H0416: 1 and L0749: 1.		
HNFV53	467056	7993	172 - 363	17745	Ala-24 to Lys-29, Gly-37 to Arg-52.		H0416: 1 and L0745: 1.		
HNFV14	658129	7994	2 - 265	17746			H0416: 1 and L0591: 1.	17	
HNFV17	429602	7995	314 - 550	17747	Gln-1 to Gly-11, Gln-22 to Ser-29.		H0416: 1		
	460818	9684	248 - 24	19436	Thr-1 to Thr-12.				
HNFV07	933330	7996	257 - 526	17748	Asp-1 to Thr-10.		H0416: 1 and L0748: 1.		
HNFV11	966347	7997	162 - 434	17749	Pro-8 to Gly-13.		H0416: 1		
HNFV59	739358	7998	283 - 450	17750	His-8 to Ser-16, Asp-50 to Gly-55.		H0416: 1 and L0748: 1.		
HNFV59	951005	7999	948 - 769	17751			H0271: 1		
HNFV58	735299	8000	320 - 673	17752	Glu-49 to Glu-58, His-70 to Gly-75.		H0271: 1 and L0748: 1.		
HNFV96	716913	8001	3 - 269	17753	Pro-9 to Thr-20, Gln-55 to Trp-65, Glu-70 to Ala-85.		L0766: 2, L0439: 2, H0271: 1 and L0756: 1.		
HNFV61	741901	8002	123 - 293	17754			H0271: 1		
HNFV56	733297	8003	230 - 57	17755			H0271: 1		
	868091	9685	439 - 600	19437					
HNFV409	961165	8004	188 - 463	17756	Lys-1 to Glu-8, Gln-20 to Ala-27.		H0271: 1 and L0592: 1.		
HNFV84	783199	8005	1 - 93	17757	Pro-26 to Arg-31.		L0745: 2, L0746: 2, H0271: 1 and L0748: 1.		
HNFV65	574598	8006	3 - 95	17758	His-1 to Cys-12.		H0271: 1		
HNFV42	526844	8007	2 - 118	17759			H0271: 1		
HNFV17	574597	8008	80 - 184	17760	Asn-1 to Glu-13.		H0271: 1		
HNFVH36	574601	8009	22 - 150	17761			H0271: 1		

HNFGH32	574605	8010	127 - 240	17762			H0271: 1		
HNFGG80	574602	8011	1 - 72	17763	Thr-8 to Arg-14.		H0271: 1		
HNFGG18	574608	8012	37 - 144	17764			H0271: 1 and L0756: 1.		
HNFGG06	936086	8013	2 - 295	17765			H0271: 1		
HNFGF88	522077	8014	126 - 257	17766			H0271: 1		
HNFGF66	860896	8015	88 - 372	17767			H0271: 1 and L0758: 1.		
HNFGF52	522293	8016	61 - 360	17768			H0271: 1		
HNFGF37	574609	8017	41 - 223	17769	Leu-50 to Val-55.		H0271: 1	22q	
HNFGF80	571306	8018	75 - 245	17770	Lys-1 to Asp-6.		H0271: 1		
HNFGF41	504165	8019	2 - 142	17771	Gly-30 to Lys-36.		H0271: 1		
HNFGF81	778250	8020	297 - 497	17772	Cys-37 to Asp-42.		L0599: 2 and H0271: 1.		
HNFGA92	790617	8021	222 - 419	17773			H0271: 1 and L0750: 1.		
HNFGA85	521880	8022	51 - 365	17774			H0271: 1		
HNFGA57	571305	8023	3 - 113	17775			H0271: 1		
HNFFU64	578096	8024	172 - 282	17776			H0271: 1, UNKWN: 1 and L0600: 1.		
HNFFR38	455273	8025	704 - 339	17777			H0271: 1		
	860903	9686	15 - 284	19438	Gln-30 to Lys-35, Leu-54 to His-60.				
HNFFQ29	860905	8026	114 - 404	17778	Ser-76 to Pro-86.		H0271: 1 and L0774: 1.		
HNFFO20	836239	8027	195 - 350	17779	Phe-14 to Leu-21, His-33 to Glu-40.		H0271: 1 and L0746: 1.		
HNFFL57	786899	8028	208 - 423	17780	Leu-15 to Gly-20.		H0271: 1 and L0754: 1.		
HNFFF05	932432	8029	37 - 132	17781			L0471: 1 and H0271: 1.		
HNFFC75	767453	8030	3 - 158	17782			H0271: 1		
HNFEY24	677114	8031	65 - 286	17783			H0271: 1		
HNFEY06	936099	8032	198 - 332	17784			H0271: 1 and L0748: 1.		
HNFEQ28	685514	8033	157 - 396	17785			H0271: 1 and L0747: 1.		
HNFEI84	783211	8034	249 - 392	17786			H0271: 1 and L0748: 1.		
HNFCV02	861004	8035	73 - 279	17787	Pro-36 to Gly-45, Ser-64 to Thr-69.		AR051: 40, AR054: 38, AR050: 29 H0271: 1		
HNFCO90	529966	8036	31 - 168	17788	Ile-14 to Ser-30.		H0271: 1		
HNFCO85	529967	8037	2 - 151	17789			H0271: 1		
HNFCO52	518637	8038	1 - 216	17790			H0271: 1		



HNFCO41	529970	8039	2 - 145	17791			H0271: 1		
HNFCO37	507312	8040	634 - 804	17792			L0748: 4, L0749: 2 and H0271: 1		
HNFCO32	529971	8041	3 - 206	17793			H0271: 1		
HNFCO22	529973	8042	35 - 160	17794			H0271: 1		
HNFCO25	556464	8043	116 - 232	17795			AR051: 2, AR054: 1, AR050: 1		
HNFBY08	960222	8044	1 - 177	17796		Gln-16 to Lys-22.	H0271: 1 and L0457: 1.		
HNFBT45	574972	8045	154 - 375	17797		Ser-1 to Trp-6, Asn-8 to Trp-13, Ala-21 to Gly-38, Cys-46 to Trp-52.	L0748: 2 and H0271: 1.		
HNFBQ02	921029	8046	29 - 271	17798		Leu-15 to Thr-21, Lys-27 to Leu-36, Asp-39 to Thr-47.	AR051: 24, AR054: 9, AR050: 2 H0271: 1		
HNFAF78	601639	8047	567 - 313	17799		Arg-25 to Ala-31.	H0271: 1		
	679579	9687	202 - 2	19439		Arg-1 to Gly-8, Pro-10 to Gly-15, His-41 to Gly-48, Pro-77 to Gly-91, Leu-151 to Val-158.			
	892100	9688	276 - 845	19440					
HNEDU66	861030	8048	116 - 337	17800			H0179: 1 and L0776: 1.		
HNEDR54	730953	8049	229 - 405	17801		Leu-20 to Cys-26, His-52 to Ser-58.	H0179: 1 and L0777: 1.		
HNEDP86	785736	8050	170 - 394	17802			H0179: 1 and L0766: 1.		
HNEDO77	955894	8051	1 - 384	17803		Pro-8 to Ala-20, Pro-36 to Ser-43, Ser-79 to Thr-84, Gly-90 to Pro-95.	H0179: 1 and L0764: 1.	19	
HNEDJ03	967115	8052	49 - 351	17804			H0179: 1, L0762: 1, L0806: 7p15, L0666: 1 and L0439: 1.	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649	
HNEDH59	739533	8053	309 - 527	17805			L0439: 5 and H0179: 1.		

HNEDF15	946986	8054	56 - 235	17806					
	973855	9689	443 - 610	19441	His-8 to Pro-16.				
	973858	9690	107 - 265	19442					
HNEDD15	812918	8055	115 - 450	17807	Leu-58 to Lys-63, Ser-72 to Ala-84.	L0530: 2 and H0179: 1.			
HNEDS71	761415	8056	169 - 363	17808	Gly-29 to Glu-35.	H0179: 1 and L0599: 1.			
HNECP28	469521	8057	215 - 424	17809	Thr-50 to Ile-59.	H0179: 1 and L0599: 1.			
	470445	9691	141 - 1	19443	His-39 to Arg-47.				
HNECN28	558790	8058	27 - 251	17810	Ser-21 to Gly-28.	H0179: 1			
HNECI41	712607	8059	115 - 333	17811	Pro-42 to Glu-49, Arg-65 to Ser-73.	H0179: 1 and L0749: 1.			
HNECD74	470015	8060	368 - 508	17812		H0179: 1			
	484793	9692	397 - 185	19444					
HNEBY64	514762	8061	480 - 767	17813	Ser-8 to Cys-14, Lys-55 to Cys-61.	H0179: 1			
HNEBY10	968455	8062	503 - 318	17814	Leu-3 to Gln-19.	H0179: 1 and L0776: 1.			
HNEBN04	927811	8063	168 - 422	17815		H0179: 1 and L0366: 1.			
HNEBM59	950732	8064	16 - 327	17816	Thr-48 to Pro-53.	H0179: 1			
HNEBM40	868109	8065	237 - 431	17817		H0179: 1			
	529572	8066	2 - 202	17818	Pro-8 to Arg-13, Arg-28 to Gly-36, Pro-49 to Gly-54.	H0179: 1			
HNEBJ81	529571	8067	15 - 134	17819	Leu-21 to Glu-28.	AR061: 3, AR089: 2 H0179: 1			
HNEBJ67	529573	8068	25 - 126	17820	Glu-21 to Cys-30.	H0179: 1			
HNEBJ62	861074	8069	28 - 252	17821	Leu-24 to Ser-40, Leu-68 to Arg-74.	H0179: 1			
HNEBJ43	529574	8070	2 - 199	17822	Lys-27 to Glu-34.	H0179: 1			
HNEBJ31	529577	8071	35 - 202	17823		H0179: 1			
HNEBJ21	529578	8072	1 - 180	17824		H0179: 1			
HNEBJ10	968440	8073	3 - 167	17825		H0179: 1 and L0766: 1.			
HNEBJ09	529579	8074	42 - 134	17826	Leu-6 to Pro-11.	H0179: 1			
					Ser-10 to Pro-25, Thr-43 to Arg-51, Val-59 to Trp-69.	H0179: 1			
HNEBJ07	861072	8075	76 - 282	17827		H0179: 1			

HNEBF27	684467	8076	2 - 148	17828	Ser-22 to Ser-27.	H0179: 1	
HNEBF20	529643	8077	2 - 79	17829	Gln-14 to Gly-23.	H0179: 1, L0662: 1, L0652: 1, L0776: 1 and L0758: 1.	
HNEAQ86	575534	8078	181 - 300	17830	Arg-6 to Cys-12.	H0179: 1	
HNEAQ37	507280	8079	1 - 237	17831		H0179: 1	
HNEAN10	968468	8080	143 - 349	17832		H0179: 1 and L0746: 1.	
HNEAK47	529646	8081	65 - 202	17833		H0179: 1	
HNEAF71	761414	8082	1 - 225	17834		H0179: 1 and L0742: 1.	
HNEAA59	738531	8083	222 - 488	17835	Pro-74 to Asn-81.	L0747: 2 and H0179: 1.	
HMWJD93	849419	8084	11 - 262	17836	Val-57 to Glu-62.	H0341: 1 and L0748: 1.	
HMWIZ55	731809	8085	2 - 151	17837		H0341: 1	
HMWIX77	973813	8086	201 - 647	17838	Glu-8 to Glu-15, Pro-43 to His-48.	H0341: 1	
HMWIX37	708676	8087	147 - 275	17839	Gly-5 to Asp-12.	L0747: 2, H0341: 1, L0774: 1, L0657: 1 and L0754: 1.	
HMWIS12	970753	8088	850 - 996	17840	Arg-14 to Leu-21.	L0779: 2, H0341: 1, L0766: 1 and L0515: 1.	
HMWIQ64	842657	8089	505 - 744	17841		L0748: 2 and H0341: 1.	
HMWIQ44	716509	8090	198 - 55	17842	Arg-20 to Asp-37.	H0341: 1	
	716650	9693	86 - 307	19445	Lys-1 to Pro-7.		
HMWIO15	956253	8091	124 - 372	17843	Gln-23 to Thr-29, Cys-61 to Pro-73.	H0341: 1	
HMWIM05	861094	8092	178 - 366	17844	Leu-54 to Gly-63.	AR050: 75, AR054: 68, AR051: 62 H0341: 1	
HMWIL08	959512	8093	3 - 722	17845	Glu-28 to Pro-36, Gly-47 to Gly-56.	H0341: 1, L0741: 1, L0745: 1, L0747: 1 and L0759: 1.	
HMWIK10	964701	8094	184 - 558	17846	Leu-8 to Ser-16.	H0341: 1 and L0769: 1.	
HMWIG75	767332	8095	131 - 331	17847	Pro-10 to Gly-20, Gly-29 to His-35.	H0341: 1	
HMWIG26	861091	8096	2 - 301	17848		H0341: 1	
HMWIG17	663972	8097	4 - 159	17849	Asp-23 to Lys-29.	L0748: 2, H0341: 1 and L0747: 1.	
HMWIG13	657260	8098	19 - 354	17850	Ala-3 to Ser-8, Pro-10 to Gly-19.	H0341: 1	103000, 114350, 120900, 131195.

						Leu-37 to Ser-53, Ser-63 to Cys-70, Pro-82 to Gln-93, Pro-95 to Pro-101.					185000, 189980, 600184, 602575, 602575
HMWIG01	913689	8099	51 - 161	17851					H0341: 1		
HMWID28	419821	8100	3 - 305	17852					H0341: 1 and L0599: 1.		
HMWIA19	928488	8101	1 - 270	17853		Phe-16 to Ser-22, Pro-50 to Pro-56.			AR054: 137, AR050: 129, AR051: 100 H0341: 1		
HMWHZ43	861097	8102	3 - 227	17854		Ile-1 to Pro-15, Leu-43 to Gly-48, Thr-51 to Glu-62, Leu-67 to Asn-75.			H0341: 1		
HMWHW82	779903	8103	55 - 174	17855		Phe-5 to Asp-10.			H0341: 1 and L0748: 1.		
HMWHV36	708099	8104	102 - 254	17856		Ser-9 to Phe-17, His-26 to Arg-32.			H0341: 1 and L0748: 1.	3	
HMWHV12	970742	8105	184 - 420	17857		Ala-22 to Leu-30.			H0341: 1 and L0747: 1.		
HMWHP86	785510	8106	88 - 174	17858					H0341: 1 and L0748: 1.		
HMWHD94	794306	8107	1 - 108	17859					H0341: 1		
HMWHB71	565104	8108	899 - 1129	17860		His-49 to Ala-57.			H0341: 1		
HMWGW79	646280	8109	54 - 377	17861		Thr-1 to Lys-12, Thr-68 to Arg-89.			L0439: 2, H0341: 1 and L0748: 1.		
HMWGGQ48	861114	8110	185 - 424	17862		Thr-46 to Ile-55.			AR050: 43, AR054: 39, AR051: 38 H0341: 1		
HMWGI79	774806	8111	462 - 262	17863		Arg-18 to His-27.			H0341: 1		
	774828	9694	79 - 285	19446		Glu-7 to Ser-12, Lys-58 to Gly-64.					
HMWGH30	455037	8112	268 - 119	17864					H0341: 1 and L0475: 1.		
	692606	9695	116 - 310	19447		Asp-4 to Ser-14, Lys-41 to Asp-48.					
HMWGE06	935593	8113	133 - 345	17865					H0341: 1 and L0776: 1.		
HMWIFY93	506636	8114	170 - 448	17866					H0341: 1 and L0439: 1.		
HMWFN80	573608	8115	98 - 205	17867					H0341: 1		
HMWFN37	861123	8116	58 - 441	17868		Pro-61 to Ala-71, Gly-86 to Asp-92.			H0341: 1, L0070: 1 and L0759: 1.		

HMWFN32	573603	8117	138 - 308	17869	Ala-9 to Ser-14.	H0341: 1	
HMWFI18	666681	8118	197 - 346	17870		H0341: 1 and L0748: 1.	
HMWFG88	592078	8119	46 - 357	17871	Trp-7 to Leu-14.	H0341: 1 and L0748: 1.	
HMWFD86	785629	8120	122 - 412	17872	Asn-4 to His-10, Gly-18 to Leu-34, Ala-48 to Trp-54.	H0341: 1 and L0766: 1.	
HMWFD68	861124	8121	3 - 161	17873	His-1 to Asp-6.	L0749: 2 and H0341: 1.	
HMWFC64	573596	8122	120 - 323	17874	Gly-24 to His-41.	H0341: 1	
HMWET56	812712	8123	2 - 259	17875	Ser-1 to Ser-8.	H0341: 1	
HMWEQ52	728535	8124	62 - 274	17876	Ala-28 to Gly-34.	H0341: 1 and L0766: 1.	
HMWEN61	909931	8125	2 - 322	17877	Glu-6 to Gly-11, Asp-61 to Asn-68, Glu-93 to Asn-102.	AR051: 21, AR054: 15, AR050: 1 H0341: 1	
HMWEL56	733583	8126	3 - 263	17878	Gln-20 to Ala-35.	H0341: 1 and L0756: 1.	
HMWEI53	861141	8127	3 - 137	17879	Lys-1 to Leu-16.	H0341: 1 and L0740: 1.	
HMWEA91	790331	8128	66 - 539	17880	Ser-2 to Cys-15.	L0743: 2, L0777: 2, H0341: 1 and L0740: 1.	
HMWEA10	968105	8129	2 - 235	17881	His-8 to Asp-22.	L0777: 2 and H0341: 1.	
HMWDZ25	678724	8130	2 - 163	17882		H0341: 1 and L0748: 1.	
HMWDR15	660522	8131	1 - 417	17883	Asp-1 to Ile-32, Pro-34 to Pro-39, Leu-43 to Arg-48, Glu-71 to Thr-82, Pro-95 to Pro-102, Glu-114 to Lys-124.	H0341: 1 and L0754: 1.	
HMWDP06	935903	8132	18 - 110	17884		H0341: 1	
HMWDN60	974425	8133	61 - 375	17885	Pro-6 to Gly-11, Gly-54 to Arg-62.	L0756: 2 and H0341: 1.	
HMWDH55	732304	8134	98 - 310	17886	Pro-21 to His-38.	L0749: 2 and H0341: 1.	
HMWCT43	715575	8135	130 - 414	17887		H0341: 1 and L0748: 1.	
HMWCR88	955258	8136	92 - 190	17888	Phe-9 to Cys-17.	L0756: 2 and H0341: 1.	
HMWCH47	720581	8137	112 - 261	17889		H0341: 1 and L0439: 1.	
HMWCH04	615628	8138	2 - 130	17890	Ile-26 to Ser-33.	L0740: 2 and H0341: 1.	
HMWCG38	851630	8139	249 - 494	17891	Gly-1 to Lys-8, Ser-30 to Leu-43, Glu-68 to Gly-77.	H0341: 1 and L0748: 1.	

HMWBZ89	787111	8140	1 - 207	17892	Thr-18 to Lys-24.	H0341: 1 and L0748: 1.		
HMWBT59	893995	8141	3 - 287	17893	Pro-59 to Trp-72.	AR054: 37, AR050: 34, AR051: 33, AR089: 5, AR061: 4 H0341: 1		
HMWBT05	932558	8142	218 - 379	17894		L0740: 2, H0341: 1, L0761: 1, L0517: 1 and L0744: 1.		
HMWBI77	888862	8143	3 - 404	17895		AR054: 18, AR051: 15, AR050: 2 H0341: 1		
HMWBI40	712730	8144	393 - 617	17896		H0341: 1 and L0439: 1.		
HMWBH29	927321	8145	2 - 499	17897		L0749: 2, H0341: 1, L0775: 1 and L0439: 1.		
HMWBG16	859404	8146	2 - 202	17898	Pro-9 to Gly-18.	H0341: 1		
HMWBB42	714114	8147	310 - 423	17899	Gln-3 to Ser-8.	H0341: 1 and L0748: 1.		
HMWAJ04	586507	8148	27 - 395	17900	Val-1 to Leu-19, Pro-23 to Thr-29, Thr-34 to Thr-39, Pro-45 to Asn-54, His-61 to Trp-70.	AR051: 120, AR050: 118, AR054: 100 H0341: 1		
HMVDZ11	966351	8149	2 - 145	17901		S0212: 1, L0744: 1 and L0596: 1.		
HMVDV55	811616	8150	3 - 245	17902		L0439: 2, S0212: 1 and L0748: 1.		
HMVDQ02	919057	8151	209 - 355	17903		S0212: 1, L0774: 1 and L0589: 1.		
HMVDL45	717384	8152	341 - 655	17904	Ser-1 to Gln-17, Tyr-48 to Ser-64, Asp-69 to Lys-84.	L0438: 2, L0439: 2 and S0212: 1.		
HMVDJ60	877124	8153	398 - 661	17905	Glu-29 to Ile-36, Arg-47 to Ser-54, Arg-62 to Ser-67.	S0212: 1, L0756: 1 and L0731: 1.		
HMVDE10	861184	8154	247 - 462	17906		S0212: 1 and L0759: 1.		
HMVCY89	786651	8155	352 - 471	17907		L0748: 5 and S0212: 1.		
HMVCY14	657801	8156	1 - 474	17908		L0748: 3 and S0212: 1.		
HMVCG26	681174	8157	119 - 340	17909	Asp-21 to Leu-27.	S0212: 1, L0471: 1 and		

HMVB77	771974	8158	422 - 577	17910	Asn-2 to Asp-9.	L0754: 1.		
HMVB16	661692	8159	318 - 461	17911		S0212: 1 and L0439: 1.		
						S0212: 1, L0790: 1, L0749: 1 and L0777: 1.		
HMVB89	786118	8160	213 - 452	17912	Tyr-22 to Thr-27.	S0212: 1 and L0439: 1.		
HMVB083	780366	8161	494 - 736	17913	Ala-47 to His-52.	L0747: 2 and S0212: 1.		
HMVB191	790025	8162	94 - 219	17914	Phe-23 to Ala-28.	S0212: 1 and L0754: 1.		
HMVB52	726546	8163	3 - 215	17915		S0212: 1 and L0757: 1.		
HMVB44	716410	8164	264 - 386	17916		L0749: 2 and S0212: 1.		
HMVAT54	888180	8165	86 - 562	17917	Thr-13 to Trp-20, Gly-52 to Leu-59, Gln-138 to Thr-143.	S0212: 1 and L0769: 1.	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 600761, 602066
HMVAT52	726515	8166	39 - 428	17918	Thr-10 to Cys-25, Ser-39 to Asp-47.	S0212: 1 and L0754: 1.		
HMVAP56	732985	8167	146 - 304	17919	Ser-31 to Ser-43.	L0439: 2, S0212: 1 and L0594: 1.		
HMVAF71	761400	8168	2 - 145	17920		S0212: 1 and L0439: 1.		
HMVAF52	861210	8169	1 - 378	17921	Ile-46 to Ile-51.	S0212: 1 and L0754: 1.		
HMVAC67	751600	8170	527 - 811	17922		L0748: 2 and S0212: 1.		
HMSPH53	861245	8171	2 - 307	17923	Ser-67 to Trp-72.	S0426: 1 and L0783: 1.		
HMSPE04	926800	8172	2 - 250	17924		L0770: 2, L0588: 2, S0426: 1, L0803: 1 and L0602: 1.		
HMSPA30	861265	8173	365 - 189	17925		S0426: 1 and L0749: 1.		
HMSO028	861287	8174	473 - 24	17926		S0426: 1 and L0565: 1.	10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
HMSO188	861292	8175	1 - 471	17927	Glu-9 to Glu-18, Asp-24 to Leu-29, Pro-98 to Ser-112, Ala-115 to Thr-121.	S0426: 1 and L0591: 1.		

HMSOJ01	915084	8176	500 - 775	17928	Pro-33 to Thr-39.	S0426: 1, L0662: 1, L0766: 1, L0748: 1, L0779: 1 and L0759: 1.		
HMSOH03	922828	8177	212 - 397	17929		S0426: 1, L0438: 1 and L0439: 1.		
HMSNP06	934161	8178	249 - 419	17930		S0426: 1 and L0769: 1.		
HMSNG04	926845	8179	204 - 431	17931	Leu-1 to Lys-7, Cys-13 to Ser-23, Ser-25 to Gly-48, Thr-57 to Pro-65.	L0623: 1 and S0426: 1.		
HMSMY10	963431	8180	39 - 191	17932	Ala-1 to Tyr-12, Pro-44 to Leu-51.	S0426: 1, L0748: 1 and L0749: 1.		
HMSMW91	861336	8181	1 - 117	17933		S0426: 1 and L0749: 1.		
HMSMW64	861338	8182	22 - 441	17934	Val-3 to Lys-9, Leu-32 to Gln-40, Glu-70 to Gly-83.	S0426: 1 and L0589: 1.		
HMSMO59	861341	8183	148 - 495	17935	Arg-33 to Phe-41, Ser-62 to Lys-67.	L0596: 2 and S0426: 1.		
HMSMN71	927097	8184	3 - 533	17936	Lys-1 to Glu-7, Gln-18 to Asp-33, Leu-44 to Leu-50, Thr-67 to Ala-82, Ser-90 to Ser-98, Leu-130 to Gln-135.	AR061: 7, AR089: 3 L0483: 1 and S0426: 1.		
HMSMN26	861345	8185	2 - 136	17937	Gly-22 to Trp-29.	S0426: 1 and L0748: 1.		
HMSLH07	953390	8186	1 - 96	17938		S0002: 1 and L0521: 1.		
HMSKQ08	861372	8187	184 - 447	17939		S0002: 1		
HMSKH24	495770	8188	372 - 268	17940	Pro-19 to Arg-27.	S0002: 1		
	596892	9696	178 - 390	19448				
HMSJX84	783032	8189	338 - 496	17941	Asn-1 to His-10.	S0002: 1 and L0439: 1.		
HMSIW48	852496	8190	674 - 1159	17942	Pro-52 to Ser-58, Cys-82 to Ala-87, Pro-104 to Ala-114, Pro-123 to Thr-128, Gly-144 to Gly-158.	S0002: 1		
HMSJU80	775416	8191	231 - 395	17943	Lys-18 to Asp-24.	L0748: 3 and S0002: 1.		



HMSJQ40	954003	8192	2 - 331	17944			S0002: 1	
HMSJO72	465884	8193	49 - 270	17945	Leu-52 to Tyr-58.		S0002: 1 and L0748: 1.	
HMSJO43	715274	8194	1 - 63	17946			S0002: 1	
HMSJM02	920070	8195	351 - 1091	17947	Arg-33 to Thr-38.		S0002: 1 and L0597: 1.	
HMSJL53	921263	8196	71 - 433	17948	Lys-13 to Ala-20, Gln-57 to Cys-65.		AR050: 30, AR051: 29, AR054: 23 S0002: 1	
							S0002: 1	
HMSJJ22	495774	8197	581 - 408	17949			S0002: 1	
	855778	9697	353 - 613	19449	Tyr-28 to Gly-34.			
HMSJJ78	772846	8198	170 - 421	17950			S0002: 1 and L0591: 1.	
HMSJD56	868168	8199	219 - 446	17951			S0002: 1 and L0766: 1.	
HMSJZ49	973806	8200	445 - 645	17952			S0002: 1	
HMSIW04	465835	8201	585 - 749	17953			S0002: 1 and L0756: 1.	
HMSIU74	765600	8202	270 - 377	17954			S0002: 1 and L0746: 1.	
HMSIT32	699241	8203	322 - 492	17955			S0002: 1, L0517: 1 and L0756: 1.	
HMSIT28	686663	8204	29 - 217	17956	Ser-29 to Leu-34, Arg-42 to Gly-51.		S0002: 1 and L0439: 1.	
HMSIP20	669671	8205	169 - 300	17957	Gln-13 to Leu-18, Asn-29 to Arg-35.		S0002: 1 and L0599: 1.	
HMSIP02	920079	8206	402 - 223	17958			S0002: 1 and L0749: 1.	
HMSIK04	615218	8207	16 - 201	17959			S0002: 1 and L0766: 1.	
HMSIB06	935151	8208	289 - 47	17960	Trp-1 to Asp-6.		S0002: 1 and L0749: 1.	
	935272	9698	212 - 403	19450	Asn-3 to Trp-10.			
HMSHV11	967007	8209	28 - 153	17961	Tyr-1 to Asn-7.		S0002: 1 and L0605: 1.	
HMSHU68	753038	8210	513 - 271	17962			S0002: 1 and L0757: 1.	
HMSHU37	495778	8211	195 - 1	17963	Leu-40 to Gly-53, Arg-60 to Arg-65.		S0002: 1	
	855786	9699	1 - 282	19451				
	855787	9700	344 - 514	19452				
HMSHT11	967068	8212	348 - 485	17964			L0476: 1 and S0002: 1.	
HMSHO45	717808	8213	57 - 227	17965			S0002: 1 and L0745: 1.	
HMSHI09	709471	8214	359 - 736	17966			S0002: 1 and L0731: 1.	
HMSHI61	741834	8215	111 - 341	17967	Thr-43 to Asp-49.		L0777: 2, S0002: 1, L0745: 1, L0746: 1 and L0750: 1.	

HMSGH08	959461	8216	1 - 150	17968	Pro-11 to Ala-22, Thr-44 to Arg-50.	S0002: 1 and L0742: 1.		
HMSGH06	935496	8217	194 - 349	17969	Thr-13 to Arg-24, Cys-40 to Lys-47.	S0002: 1 and L0758: 1.		
HMSHE81	784966	8218	2 - 430	17970	Ala-4 to Tyr-11, Thr-26 to Pro-38, Ser-56 to Asp-64, Ser-70 to Ser-76.	AR089: 27, AR061: 8 S0002: 1 and L0754: 1.		
HMSHE17	662265	8219	446 - 694	17971	Ser-11 to Thr-18.	AR050: 29, AR051: 29, AR054: 26 L0748: 2 and S0002: 1.		
	847271	9701	418 - 606	19453	Pro-31 to Cys-40, Pro-42 to Glu-48.	S0002: 1		
HMSHD80	882700	8220	273 - 518	17972	Thr-31 to Gly-38, Leu-43 to Asn-55.	L0750: 2 and S0002: 1.		
HMSHB81	777946	8221	424 - 636	17973	Ala-21 to Lys-28.	S0002: 1		
HMSGX86	793163	8222	3 - 158	17974	Asp-1 to Asn-9, Leu-31 to Val-39.	L0748: 2 and S0002: 1.		
HMSGF56	733562	8223	174 - 308	17975	Ser-41 to Arg-49.	S0002: 1 and L0362: 1.		
HMSGF54	730823	8224	265 - 119	17976	Gln-20 to Ser-25, Glu-42 to Ile-52.	S0002: 1 and L0592: 1.		
HMSGF51	761922	8225	124 - 333	17977	Lys-22 to His-38, Lys-48 to Arg-59.	L0748: 2 and S0002: 1.		
HMSGD24	677337	8226	14 - 136	17978	Lys-1 to Ala-10, Gln-53 to Thr-58.	S0002: 1 and L0745: 1.		
HMSGC85	783608	8227	266 - 21	17979	Gly-8 to Glu-18.	AR054: 44, AR050: 25, AR051: 19 S0002: 1		
	881955	9702	275 - 514	19454	Glu-1 to Tyr-7.	S0002: 1 and L0758: 1.		
HMSFY63	745230	8228	184 - 315	17980	Gly-58 to Ala-64.	S0002: 1		
HMSFX73	888326	8229	97 - 2	17981	1 - 282	S0002: 1 and L0794: 1.		
HMSFS08	959773	8230	290 - 421	17982	2 - 88	S0002: 1		
HMSFR23	919890	8231	763 - 1002	17983	22 - 222	S0002: 1		
HMSFN08	959774	8232	1 - 282	17984				
HMSFN68	753635	8233	2 - 88	17985				
HMSFN13	384695	8234		17986	Leu-1 to His-6.			

HMSSEN08	960147	8235	41 - 244	17987	Gly-2 to Leu-13.	L0748: 3, S0002: 1 and L0601: 1.		
HMSEM34	706366	8236	97 - 333	17988	Glu-5 to Arg-11, Arg-19 to Lys-25, Ser-61 to Gly-69.	S0002: 1 and L0748: 1.		
HMSEL64	842040	8237	73 - 198	17989	Pro-18 to Thr-23, Arg-29 to Asn-34.	S0002: 1 and L0759: 1.		
HMSEG67	751865	8238	163 - 2	17990	Arg-5 to Ser-10.	S0002: 1		
HMSDQ15	660654	8239	2 - 166	17991	Glu-31 to Gln-36.	S0002: 1 and L0748: 1.		
HMSDL70	909997	8240	2 - 307	17992	Pro-12 to Glu-21, Gln-29 to Ser-34.	S0002: 1 and L0741: 1.		
HMSDK10	968435	8241	3 - 164	17993		S0002: 1 and L0756: 1.		
HMSDI34	559991	8242	2 - 154	17994	His-1 to Ser-7.	S0002: 1		
HMSDG12	574950	8243	2 - 238	17995		S0002: 1 and L0741: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HMSDG04	927804	8244	94 - 270	17996		S0002: 1 and L0527: 1.		
HMSDB08	960260	8245	175 - 318	17997	Tyr-15 to Asn-20.	S0002: 1 and L0805: 1.		
HMSDA81	778469	8246	1 - 183	17998	Thr-12 to Ala-17.	S0002: 1 and L0752: 1.		
HMSCY01	921768	8247	1 - 240	17999		S0002: 1 and L0748: 1.		
HMSCW45	723483	8248	3 - 242	18000		L0758: 2, S0002: 1 and L0748: 1.		
HMSCT69	855855	8249	258 - 476	18001		S0002: 1		
HMSCP73	764703	8250	183 - 368	18002		S0002: 1 and L0766: 1.		
HMSCO63	855863	8251	238 - 444	18003	Ser-25 to Pro-31, Ser-45 to Gln-54.	L0748: 2, S0002: 1 and L0762: 1.		
HMSCD07	954243	8252	3 - 161	18004		S0002: 1 and L0592: 1.		
HMSBZ67	973737	8253	1 - 234	18005	Asn-1 to Arg-7.	S0002: 1		
HMSBZ13	855866	8254	2 - 142	18006		S0002: 1 and L0599: 1.		
HMSBY67	752145	8255	213 - 323	18007	Gln-24 to Gly-36.	S0002: 1 and L0777: 1.		
HMSBW54	880721	8256	89 - 289	18008	Leu-1 to Arg-7, Lys-34 to Lys-39.	S0002: 1 and L0766: 1.		

HMSBU24	678709	8257	194 - 475	18009	Asp-4 to Gly-14, Gln-16 to Cys-22, Arg-45 to Trp-56, Val-68 to Val-78.	L0603: 2 and S0002: 1.		
HMSBO95	796724	8258	249 - 377	18010		S0002: 1 and L0749: 1.		
HMSBM92	792970	8259	3 - 140	18011	His-18 to Glu-25.	S0002: 1		
HMSBI82	780229	8260	3 - 188	18012	Tyr-39 to Trp-45.	S0002: 1		
HMSBI56	733772	8261	3 - 68	18013	Asn-11 to Glu-17.	S0002: 1		
HMSBH85	784576	8262	211 - 423	18014	Pro-50 to Cys-55.	S0002: 1 and L0600: 1.		
HMSBH08	958802	8263	981 - 658	18015		S0002: 1		
	958939	9703	451 - 122	19455				
HMSBH07	954457	8264	59 - 382	18016	Gly-30 to Lys-41, Asn-72 to Gly-80.	S0002: 1 and L0655: 1.		
HMSBF92	582654	8265	489 - 253	18017		S0002: 1		
	791382	9704	278 - 475	19456				
HMSBC31	960021	8266	207 - 434	18018	Pro-1 to Lys-14.	S0002: 1 and L0748: 1.		
HMSBA43	715699	8267	43 - 261	18019		S0002: 1, L0766: 1 and L0748: 1.		
HMSAV84	781872	8268	45 - 233	18020		S0002: 1 and L0748: 1.		
HMSAV65	747792	8269	405 - 190	18021		S0002: 1		
HMSAT76	842065	8270	2 - 172	18022	Arg-3 to Ala-15, Ala-26 to Trp-34, Gly-37 to Ser-43.	S0002: 1, L0439: 1 and L0779: 1.		
HMSAQ95	796728	8271	18 - 152	18023	Phe-4 to Ser-11.	S0002: 1 and L0731: 1.		
HMSAQ58	738495	8272	2 - 157	18024		L0740: 2 and S0002: 1.		
HMSAP36	518062	8273	95 - 223	18025	Glu-20 to Glu-26.	S0002: 1		
HMSAO42	714316	8274	74 - 187	18026		S0002: 1 and L0749: 1.		
HMSAH80	781640	8275	71 - 310	18027	Arg-8 to Arg-14, Arg-26 to Thr-33, Ser-50 to Trp-55.	S0002: 1 and L0748: 1.		
HMQDV06	936015	8276	11 - 415	18028	Thr-18 to Gln-26, Pro-44 to Gln-49, Thr-55 to Lys-60, Arg-100 to Asn-107, Pro-115 to Glu-122.	H0250: 1, L0761: 1 and L0800: 1.		
HMQDQ42	457221	8277	1 - 294	18029	Leu-12 to Asp-18,	H0250: 1 and L0748: 1.		

HMQL40	711421	8278	121 - 255	18030	Cys-62 to Ser-72.	H0250: 1 and L0749: 1.	
HMQCZ36	708066	8279	162 - 386	18031	Ala-1 to Ser-7, Pro-29 to Gly-39.	L0748: 2 and H0250: 1.	
HMQCZ18	574068	8280	1 - 297	18032		H0250: 1 and L0743: 1.	
HMQCX42	712966	8281	57 - 266	18033		L0748: 2 and H0250: 1.	
HMQCV29	974683	8282	2 - 499	18034	Pro-7 to Gln-20.	H0250: 1 and L0766: 1.	
HMQCN17	385544	8283	124 - 288	18035		H0250: 1, L0779: 1 and L0591: 1.	
HMQCM46	719201	8284	2 - 136	18036	Lys-6 to Lys-15.	H0250: 1	
HMQCM41	711586	8285	2 - 115	18037	Ser-14 to Tyr-20.	H0250: 1	
HMQCM05	932363	8286	40 - 171	18038		H0250: 1	
HMQCH69	754188	8287	1 - 201	18039		H0250: 1 and L0756: 1.	
HMQCH54	728851	8288	195 - 278	18040		L0747: 2 and H0250: 1.	
HMQCB03	963370	8289	1 - 255	18041		L0498: 2 and H0250: 1.	
HMQBN40	779856	8290	204 - 473	18042		H0250: 1 and L0777: 1.	
HMPTA56	921233	8291	3 - 290	18043	Phe-1 to Gly-7, Lys-9 to Pro-23, Arg-65 to Ala-70, Leu-76 to Gln-82, Leu-90 to Pro-95.	H0109: 1	
HMPTA28	685099	8292	171 - 284	18044	Pro-5 to Met-10.	H0109: 1	
HMPSC38	709222	8293	97 - 330	18045		H0109: 1 and L0748: 1.	
HMPBB84	781863	8294	163 - 345	18046	Glu-51 to Ser-57.	H0061: 1	
HMOAD90	600400	8295	2 - 184	18047	Asp-11 to Glu-16, Asp-30 to Asn-39.	H0191: 1	
HMOAD60	855919	8296	2 - 241	18048		AR054: 2, AR051: 2, AR050: 1 H0191: 1	
HMMCL96	796276	8297	316 - 480	18049		L0748: 1 and H0444: 1.	
HMMCI01	913715	8298	187 - 342	18050	Val-22 to Gly-29.	L0785: 1 and H0444: 1.	
HMMCH69	754902	8299	2 - 112	18051		H0444: 1 and L0605: 1.	
HMMCH09	625366	8300	287 - 595	18052	Gln-40 to Gly-46, Ser-72 to His-78, Pro-93 to Trp-99.	L0748: 1 and H0444: 1.	

HMMCD83	875272	8301	315 - 440	18053	Thr-8 to Lys-20.	L0599: 2, L0369: 1 and H0444: 1.	
HMMCD23	675720	8302	1 - 276	18054		L0754: 1 and H0444: 1.	
HMMCA11	966677	8303	28 - 336	18055	Thr-10 to Gly-17, Ser-59 to Ala-66.	L0749: 1 and H0444: 1.	
HMMCA08	958980	8304	81 - 260	18056	Thr-31 to Asp-44.	L0532: 1 and H0444: 1.	
HMMBZ18	666192	8305	247 - 441	18057		L0748: 7, L0766: 3, L0749: 2, L0717: 1, L0527: 1, L0779: 1 and H0444: 1.	
HMMBZ05	566870	8306	75 - 401	18058	Pro-14 to Ser-20, Gln-80 to Trp-87.	AR051: 53, AR050: 53, AR054: 36, L0759: 1 and H0444: 1.	
	882446	9705	314 - 682	19457	Ser-3 to Thr-8.		
HMMBX01	916067	8307	100 - 270	18059		L0758: 1 and H0444: 1.	
HMMBV08	958987	8308	381 - 223	18060		L0769: 1 and H0444: 1.	
HMMBU13	597147	8309	222 - 344	18061		L0600: 2 and H0444: 1.	
HMMBT64	746399	8310	257 - 421	18062		L0748: 1 and H0444: 1.	
HMMBT30	841959	8311	305 - 583	18063	Ser-72 to Asn-77.	L0766: 1 and H0444: 1.	
HMMBT03	855930	8312	99 - 332	18064		H0444: 1	
HMMBQ08	958988	8313	117 - 281	18065	Pro-8 to Lys-15.	L0740: 1 and H0444: 1.	
HMMBQ49	722753	8314	22 - 279	18066		L0754: 1 and H0444: 1.	
HMMBQ28	686318	8315	1 - 147	18067		L0748: 1 and H0444: 1.	
HMMBN76	769890	8316	327 - 494	18068	Lys-1 to Ile-7.	L0748: 1, L0749: 1 and H0444: 1.	
HMMBN71	973436	8317	95 - 331	18069	Asn-72 to Leu-79.	H0444: 1	
HMMBN54	729352	8318	135 - 398	18070		L0748: 1 and H0444: 1.	
HMMBM83	781010	8319	19 - 192	18071		L0748: 1 and H0444: 1.	
HMMBL55	731523	8320	221 - 373	18072	Pro-8 to Lys-28, Ile-41 to Cys-48.	L0754: 1 and H0444: 1.	
HMMBH64	746402	8321	2 - 193	18073	Ser-23 to Glu-29, Pro-54 to Asp-63.	L0439: 1 and H0444: 1.	
HMMBF86	812597	8322	2 - 163	18074	Arg-20 to Trp-26, Ser-30 to Glu-43.	L0748: 1 and H0444: 1.	12
HMMBF72	761389	8323	165 - 317	18075	Lys-16 to Lys-51.	H0444: 1 and L0599: 1.	
HMMBF41	711731	8324	366 - 506	18076		H0444: 1 and L0581: 1.	

HMMAV44	716396	8325	183 - 338	18077	Lys-12 to Arg-18.	L0748: 2 and H0444: 1.	
HMMAT23	973437	8326	3 - 305	18078	Arg-1 to Gly-7.	H0444: 1	
HMMAT08	959005	8327	125 - 343	18079	Gln-19 to Leu-25.	H0444: 1 and L0599: 1.	
HMMAS73	764280	8328	376 - 597	18080		L0756: 1 and H0444: 1.	
HMMAR20	669523	8329	373 - 549	18081	Lys-22 to Gly-27.	L0748: 2 and H0444: 1.	
HMMAQ70	757070	8330	324 - 413	18082		L0748: 1 and H0444: 1.	
HMMAO06	935087	8331	453 - 656	18083	Pro-28 to Asn-33, Phe-46 to Gly-52, Thr-61 to Asn-67.	L0638: 1 and H0444: 1.	
HMMAL71	760206	8332	159 - 425	18084	Pro-79 to Ile-84.	H0444: 1	
HMMAL69	754908	8333	213 - 365	18085	Pro-12 to Gln-19.	L0749: 1, H0444: 1 and L0605: 1.	
HMMAL59	738982	8334	246 - 404	18086	Arg-1 to Glu-7.	H0444: 1	
HMMAL54	729351	8335	241 - 357	18087	Glu-2 to Gly-7.	H0444: 1	
HMMAL44	716407	8336	144 - 320	18088	Thr-9 to Trp-19.	L0662: 1, L0749: 1 and H0444: 1.	
HMMAL42	713542	8337	34 - 183	18089	Lys-24 to Val-30, Thr-44 to Arg-49.	H0444: 1	
HMMAL35	707278	8338	97 - 303	18090	Lys-1 to Gln-6, Ser-27 to Lys-43, Glu-50 to Lys-62.	L0529: 1 and H0444: 1.	
HMMAL30	693545	8339	6 - 80	18091		H0444: 1	
HMMAL18	665512	8340	174 - 356	18092		H0444: 1	
HMMAL16	661699	8341	296 - 412	18093	Ser-1 to Lys-32.	H0444: 1	
HMMAK83	781016	8342	193 - 345	18094	Pro-20 to Phe-25.	L0748: 3, L0749: 1 and H0444: 1.	
HMMAH61	741662	8343	142 - 321	18095		L0748: 1 and H0444: 1.	
HMMAF92	973971	8344	265 - 459	18096		H0444: 1	
HMMAF34	842015	8345	297 - 479	18097		L0762: 1 and H0444: 1.	
HMMAE45	720838	8346	55 - 351	18098		L0748: 4, L0367: 1, L0747: 1 and H0444: 1.	
HMMAE16	856007	8347	117 - 344	18099	Ser-23 to Cys-31.	L0754: 1 and H0444: 1.	
HMMAB96	826488	8348	285 - 563	18100		H0444: 1	
HMCIW93	897377	8349	1 - 306	18101	Arg-1 to Gly-16, Thr-30 to Ser-42.	S0344: 1	

HMCHZ77	771795	8350	2 - 346	18102		AR061: 8, AR089: 5 S0344: 1 and L0748: 1.	
HMCHS34	703691	8351	127 - 273	18103	Arg-18 to Gly-23.	L0748: 3 and S0344: 1.	
HMCHK58	752431	8352	580 - 419	18104		S0344: 1 and L0601: 1.	
HMCXG46	886903	8353	1 - 426	18105	Glu-25 to Asn-32, His-49 to Asn-57.	AR051: 24, AR050: 18, AR054: 10 S0344: 1	
HMCXG66	787512	8354	1 - 216	18106	Tyr-16 to Trp-25, Val-49 to Pro-54, Gln-62 to Leu-68.	S0344: 1 and L0747: 1.	
HMCXG39	856222	8355	1 - 321	18107		L0455: 1, S0344: 1 and L0439: 1.	
HMCXG57	734404	8356	161 - 358	18108		S0344: 1, L0748: 1 and L0756: 1.	
HMCXG86	846578	8357	13 - 171	18109	Ser-30 to Gly-36.	S0344: 1 and L0748: 1.	
HMCXG04	927002	8358	182 - 343	18110	Lys-16 to Trp-22, Gly-39 to Ala-50.	S0344: 1 and L0517: 1.	
HMCXG93	791555	8359	185 - 322	18111	Arg-1 to Val-9.	S0142: 1, L0439: 1 and L0746: 1.	
HMCXG70	757192	8360	98 - 373	18112	Thr-10 to Gly-17, Lys-21 to Pro-30, Pro-45 to Ser-55.	S0142: 1 and L0600: 1.	
HMCXG04	925591	8361	225 - 563	18113	His-1 to Ile-14.	S0142: 1 and L0748: 1.	
HMCXG77	856266	8362	2 - 343	18114	Asn-12 to Gln-17, Gly-25 to Ala-34, Lys-72 to Ser-78.	AR089: 1, AR061: 0 S0278: 1 and L0591: 1.	
HMCXG06	933960	8363	61 - 222	18115	Gly-31 to Leu-36.	S0278: 1 and L0456: 1.	
HMCXG39	751523	8364	2 - 280	18116	Glu-13 to Gln-19.	S0278: 1, L0438: 1 and L0604: 1.	
HMCXG09	950168	8365	2 - 493	18117	Tyr-30 to Ser-35, Arg-94 to Gly-100.	AR089: 0, AR061: 0 S0278: 1	
HMCXG90	886821	8366	1 - 453	18118	Arg-41 to Ala-58, Ala-62 to Ser-71, Leu-88 to Gly-96.	AR051: 19, AR050: 17, AR054: 2 S0278: 1	
HMCXG20	669436	8367	94 - 303	18119	Asn-16 to Asp-21.	L0745: 2 and S0278: 1.	
HMCXG15	956705	8368	534 - 268	18120	Ala-2 to Trp-7.	AR089: 1, AR061: 0	



HMAIA55	899404	8369	89 - 877	18121	Pro-35 to Asp-46. Pro-28 to Cys-34, Asn-153 to Gly-161, Ala-227 to Asn-233.	S0278: 1 AR051: 37, AR061: 9, AR054: 6, AR089: 4, AR050: 1 S0278: 1		
HMAHP37	566344	8370	177 - 440	18122	Gln-17 to Gly-27.	S0278: 1		
HMAGT95	795686	8371	22 - 330	18123	Cys-44 to Ser-52, Arg-96 to Leu-103.	S0278: 1 and L0742: 1.		
HMAGS90	788683	8372	58 - 258	18124	Phe-4 to Leu-11, Pro-14 to Leu-20.	L0777: 2 and S0278: 1.		
HMAGI39	910152	8373	118 - 321	18125		L0776: 2 and S0278: 1.	I9q13.4	134790, 191044, 600040, 600138
HMAFF71	760304	8374	2 - 550	18126		L0731: 2, S0144: 1 and L0750: 1.		
HMAFC96	796348	8375	32 - 448	18127	Arg-1 to Ser-13, Gly-24 to Pro-33, Ser-44 to Glu-50.	S0144: 1 and L0748: 1.	I1p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HMAEK93	791549	8376	355 - 582	18128	Ser-24 to Lys-39, Trp-52 to Pro-58.	S0144: 1 and L0731: 1.		
HMA DF74	944465	8377	144 - 1145	18129	Gly-5 to Glu-16, Gly-28 to Ser-34, Pro-186 to Pro-196, Ser-213 to Asn-219, Ser-249 to Ile-267.	AR089: 12, AR061: 8 S0144: 1		
HMACZ84	975349	8378	147 - 353	18130	His-7 to Phe-13.	S0144: 1		

HMACV54	922354	8379	421 - 170	18131	Thr-50 to Phe-62, Pro-69 to His-75.	AR089: 21, AR061: 16 S0144: 1 and L0767: 1.		
HMABT55	753560	8380	27 - 275	18132		S0144: 1 and L0756: 1.		
HMABD66	388074	8381	138 - 383	18133		AR061: 0, AR089: 0 S0144: 1		
HLYHN64	970747	8382	26 - 397	18134		L0748: 3 and H0445: 1.		
HLYHN40	710825	8383	125 - 256	18135	Gly-14 to His-20.	L0745: 1 and H0445: 1.		
HLYHL55	731447	8384	213 - 443	18136		L0754: 1 and H0445: 1.		
HLYHK64	746310	8385	87 - 215	18137	Asn-25 to Ile-30.	L0744: 1, L0748: 1 and H0445: 1.		
HLYHK61	932994	8386	1 - 549	18138	Lys-61 to Ser-68, Ser-91 to Lys-96.	L0747: 2, L0748: 1, L0750: 1 and H0445: 1.		
HLYHK34	703776	8387	298 - 519	18139	Lys-37 to Lys-71.	AR089: 1, AR061: 1 L0766: 1, L0754: 1 and H0445: 1.		
HLYHJ37	708625	8388	257 - 421	18140	Pro-16 to Ser-22, Ala-32 to Lys-39.	L0439: 1 and H0445: 1.		
HLYHJ02	919201	8389	232 - 444	18141	Ile-17 to Ser-23, Gln-39 to Ser-57.	L0758: 1 and H0445: 1.		
HLYHI05	953925	8390	424 - 20	18142	Asn-98 to Tyr-105, Lys-130 to His-135.	L0766: 1 and H0445: 1.		
HLYHF62	743058	8391	89 - 277	18143	Asn-13 to Glu-18.	H0445: 1 and L0361: 1.		
HLYHE85	784140	8392	294 - 506	18144	Ser-18 to Cys-33, Asn-36 to His-42.	L0766: 1 and H0445: 1.		
HLYHA48	721372	8393	170 - 466	18145	Asn-1 to Pro-8, Leu-58 to Gln-64.	L0766: 5 and H0445: 1.		
HLYHA04	614848	8394	83 - 229	18146	Ser-17 to Gly-22.	L0748: 2 and H0445: 1.		
HLYGZ71	760115	8395	275 - 613	18147	Gly-8 to Leu-13, Pro-46 to Val-51, Leu-56 to Arg-64, Val-100 to Gln-110.	L0761: 1 and H0445: 1.		
HLYGZ11	966503	8396	194 - 430	18148		L0598: 1, L0648: 1 and H0445: 1.		
HLYGY60	740081	8397	119 - 397	18149		L0748: 2, L0766: 1, L0439: 1, L0750: 1, L0755: 1, H0445: 1 and L0601: 1.		

HLYGW95	795682	8398	110 - 373	18150	Val-15 to Pro-20, Pro-41 to Leu-46, Leu-50 to Leu-57, Gly-63 to His-77, Ser-81 to Gly-87.	L0749: 1, L0777: 1 and H0445: 1.		
HLYGR56	733123	8399	481 - 636	18151		L0731: 1 and H0445: 1.		
HLYGQ29	689972	8400	91 - 213	18152	Lys-14 to Thr-25.	L0754: 2 and H0445: 1.		
HLYGQ11	966539	8401	45 - 194	18153		L0766: 1 and H0445: 1.		
HLYGM76	769835	8402	235 - 450	18154	Thr-13 to Glu-18, Lys-50 to Ile-55.	H0445: 1 and L0362: 1.		
HLYGM08	958820	8403	110 - 3	18155	Lys-6 to Tyr-36.	L0754: 1 and H0445: 1.		
HLYGJ76	685240	8404	388 - 564	18156		H0445: 1 and L0605: 1.		
HLYGH51	871634	8405	162 - 464	18157	Ser-68 to Ala-73.	AR089: 1, AR061: 0 L0748: 1 and H0445: 1.		
HLYGD69	754841	8406	108 - 302	18158	Ala-23 to Gly-28.	L0753: 1 and H0445: 1.		
HLYGB38	709187	8407	19 - 279	18159	Pro-65 to Gln-71.	L0748: 2 and H0445: 1.		
HLYFW38	709185	8408	114 - 392	18160	Leu-7 to Ser-12, Ile-21 to Ala-29, Ser-35 to Ser-41, Pro-43 to Tyr-48.	L0748: 2, L0749: 1 and H0445: 1.		
HLYFU24	856392	8409	362 - 532	18161		H0445: 1 and L0599: 1.		
HLYFR17	859567	8410	271 - 582	18162	Pro-59 to Pro-65.	L0747: 1 and H0445: 1.		
HLYFP56	871637	8411	173 - 391	18163	Ile-47 to Gln-73.	L0766: 3 and H0445: 1.		
HLYFO29	690381	8412	308 - 496	18164	Glu-42 to Ser-52.	H0445: 1 and L0596: 1.		
HLYFE11	966519	8413	103 - 276	18165	Gln-27 to Trp-42.	L0749: 1 and H0445: 1.		
HLYFD51	725116	8414	3 - 548	18166	Thr-4 to Met-17, Ser-21 to Tyr-27, Lys-40 to Asp-56.	L0157: 1, L0766: 1, L0439: 1 and H0445: 1.		
HLYFC54	729299	8415	91 - 249	18167		H0445: 1 and L0600: 1.		
HLYEV46	889678	8416	213 - 443	18168		L0788: 1 and H0445: 1.		
	889804	9706	497 - 757	19458				
HLYEV42	856395	8417	107 - 448	18169	Ser-31 to Asn-37, Gln-46 to Cys-53.	L0748: 1 and H0445: 1.		
HLYET54	729406	8418	281 - 556	18170		L0748: 1 and H0445: 1.		
HLYET48	721501	8419	310 - 429	18171		L0439: 1 and H0445: 1.		

HLYET17	662764	8420	1 - 141	18172			L0748: 1 and H0445: 1.		
HLYES45	717640	8421	296 - 643	18173			L0439: 1 and H0445: 1.		
HLYEP59	739151	8422	228 - 536	18174			L0748: 2 and H0445: 1.		
HLYEQ83	781038	8423	214 - 477	18175		Ser-79 to Ile-88.	L0596: 2 and H0445: 1.		
HLYEQ37	708623	8424	399 - 551	18176		Thr-12 to Val-19.	L0748: 1 and H0445: 1.		
HLYEL71	760220	8425	296 - 550	18177		Arg-28 to Gln-36.	L0777: 1 and H0445: 1.		
HLYED44	716430	8426	3 - 353	18178		Lys-1 to Trp-7, Pro-31 to Ser-37, Pro-46 to Asn-61, Gly-81 to Thr-90.	L0753: 1 and H0445: 1.		
HLYEC21	670678	8427	2 - 163	18179		Cys-44 to Cys-50.	L0756: 1 and H0445: 1.		
HLYEB11	966748	8428	85 - 351	18180			L0748: 4 and H0445: 1.		
HLYEA92	561537	8429	5 - 115	18181		Asp-13 to Asp-18.	AR054: 16, AR050: 8, AR051: 1 H0445: 1		
HLYEA86	488801	8430	135 - 326	18182		Ser-9 to Ser-14, Phe-40 to Asn-45.	L0748: 1 and H0445: 1.		
HLYEA70	943886	8431	1 - 423	18183		Val-87 to Gln-93, Tyr-123 to Gln-130.	AR054: 15, AR050: 2, AR051: 1 H0445: 1		
HLYEA49	722787	8432	33 - 161	18184		Gln-21 to Ser-27.	H0445: 1 and L0599: 1.		
HLYDY72	761359	8433	275 - 478	18185			H0445: 1 and L0599: 1.		
HLYDX40	856401	8434	94 - 450	18186		Ser-56 to Asn-65, Lys-84 to Arg-91, Lys-114 to Ser-119.	L0740: 1 and H0445: 1.		
HLYDV57	800224	8435	72 - 152	18187		Leu-1 to Arg-6.	L0745: 1 and H0445: 1.		
HLYDU14	658035	8436	281 - 445	18188		Ser-47 to Gly-52.	L0748: 1 and H0445: 1.		
HLYDT27	856405	8437	262 - 453	18189		Leu-58 to Arg-64.	L0758: 2 and H0445: 1.		
HLYDT09	972424	8438	160 - 411	18190		Asp-58 to Ser-65.	H0445: 1		
HLYDQ75	767176	8439	203 - 502	18191		Gln-15 to Leu-36, Lys-78 to Thr-85.	L0749: 1 and H0445: 1.		
HLYDO45	717079	8440	3 - 224	18192			L0518: 5, L0748: 1 and H0445: 1.		
HLYDK95	973370	8441	140 - 376	18193		His-10 to Glu-16, Ser-23 to Cys-30.	H0445: 1		
HLYDI03	923826	8442	197 - 388	18194		Pro-9 to Val-22.	L0041: 1 and H0445: 1.		

HLYDG74	939025	8443	134 - 481	18195	Pro-31 to Gly-43.	L0438: 1, L0439: 1 and H0445: 1.		
HLYDG42	713579	8444	213 - 368	18196		L0748: 1 and H0445: 1.		
HLYDF07	952940	8445	120 - 290	18197		L0761: 1 and H0445: 1.		
HLYDD60	740212	8446	39 - 125	18198	Asn-15 to Asp-29.	L0766: 1 and H0445: 1.		
HLYDB08	959076	8447	20 - 160	18199	His-1 to Gly-9, Thr-13 to Trp-18, Asn-21 to Glu-26.	L0749: 1 and H0445: 1.		
HLYCX70	757087	8448	257 - 604	18200	Ala-8 to Ser-14, Pro-64 to Arg-69.	L0748: 3 and H0445: 1.		
HLYCX34	703910	8449	39 - 227	18201		L0748: 1 and H0445: 1.		
HLYCX18	943714	8450	2 - 412	18202	Arg-7 to Arg-16.	AR061: 113, AR089: 106 L0777: 1 and H0445: 1.		
HLYCX02	919563	8451	1 - 138	18203	Ser-29 to Gly-40.	L0731: 1 and H0445: 1.		
HLYCU59	679219	8452	229 - 405	18204	Thr-49 to Cys-58.	L0756: 2 and H0445: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HLYCO43	825509	8453	257 - 466	18205	Arg-64 to Arg-69.	H0445: 1		
HLYCP63	856424	8454	14 - 184	18206	Gly-15 to Thr-21.	L0523: 1 and H0445: 1.		
HLYCO03	923844	8455	157 - 387	18207	Glu-37 to Tyr-42.	L0777: 2, L0731: 2 and H0445: 1.		
HLYCM14	657589	8456	104 - 322	18208	Lys-7 to Arg-12, Phe-35 to Gly-54.	L0748: 1 and H0445: 1.		
HLYCL69	914887	8457	372 - 509	18209		L0748: 1 and H0445: 1.	4q11-q13	103600, 103600, 103600, 104150, 104150, 104500, 125490, 170650
HLYCF51	725067	8458	172 - 396	18210	Glu-16 to Ser-34.	L0769: 2, L0666: 1, L0748: 1, L0747: 1, L0749: 1 and H0445: 1.		
HLYCF37	949401	8459	1018 - 1341	18211	His-1 to Gly-23, Arg-43 to Leu-50, Pro-52 to Glu-59, Leu-77 to Lys-108.	AR089: 31, AR061: 5 H0445: 1		

HLGCC19	668745	8460	229 - 369	18212	Arg-23 to Ser-31, Thr-41 to His-46.	L0748: 1 and H0445: 1.	
HLVCB86	785544	8461	106 - 204	18213		L0754: 1 and H0445: 1.	
HLVCB11	967162	8462	76 - 258	18214		L0731: 3, L0779: 1, H0445: 1 and L0362: 1.	
HLVBX91	790234	8463	587 - 778	18215		L0766: 3 and H0445: 1.	
HLVBV44	485853	8464	80 - 193	18216	Glu-22 to Cys-31.	H0445: 1	
	516686	9707	293 - 448	19459	Ser-1 to Gln-9, Arg-20 to Tyr-34.		
HLVBN17	463988	8465	150 - 317	18217		L0766: 3 and H0445: 1.	
HLVBM44	715879	8466	14 - 328	18218		L0742: 1 and H0445: 1.	
HLVBJ17	664101	8467	221 - 415	18219		H0445: 1 and L0599: 1.	
HLVBH84	856444	8468	165 - 443	18220	Pro-67 to Ser-72, His-75 to Gln-86.	AR054: 14, AR051: 13, AR050: 0 H0445: 1	
HLVBH68	586582	8469	220 - 486	18221	Thr-40 to Ser-57.	AR050: 18, AR054: 11, AR051: 5 H0445: 1	
HLVBG85	783508	8470	1 - 246	18222	Asn-36 to Arg-46.	L0748: 1 and H0445: 1.	
HLVBA50	880734	8471	2 - 232	18223	Thr-23 to Cys-39.	L0766: 2 and H0445: 1.	
HLVBA06	935611	8472	295 - 441	18224		L0521: 1, L0766: 1 and H0445: 1.	
HLVAX75	767225	8473	172 - 294	18225	Arg-25 to Leu-32.	H0445: 1	
HLVAX32	699337	8474	129 - 200	18226	Thr-6 to Asp-19.	L0663: 1, H0445: 1 and L0599: 1.	
HLVAU15	782335	8475	163 - 414	18227	Thr-25 to Ser-30.	L0748: 1, L0752: 1, L0758: 1 and H0445: 1.	
HLVAS35	856469	8476	96 - 293	18228		H0445: 1 and L0592: 1.	
HLVAR25	678179	8477	205 - 378	18229	Thr-52 to Lys-58.	L0777: 1 and H0445: 1.	
HLVAQ92	792770	8478	169 - 303	18230	Asp-33 to Gln-40.	L0740: 1 and H0445: 1.	
HLVAQ70	757235	8479	220 - 483	18231		L0748: 4 and H0445: 1.	
HLVAQ69	754229	8480	1 - 267	18232	Thr-50 to Ile-85.	L0754: 1 and H0445: 1.	
HLVAN68	815950	8481	182 - 337	18233		H0445: 1	
HLVAN21	854034	8482	126 - 302	18234	Lys-6 to Ser-17.	H0445: 1	
HLVANI0	964834	8483	369 - 521	18235		L0761: 1, L0517: 1, H0445: 1	

HLVAL58	736097	8484	433 - 606	18236			1 and L0599: 1.		
HLVAL22	856473	8485	214 - 456	18237	Ser-1 to Asp-6, Gly-60 to Gly-66.		L0439: 2 and H0445: 1. L0369: 1 and H0445: 1.		
HLVAL11	967173	8486	100 - 294	18238	Gln-35 to Phe-47, Glu-55 to Gln-64.		L0766: 1, L0606: 1 and H0445: 1.		
HLYAK36	708028	8487	192 - 356	18239			L0749: 1, H0445: 1 and L0599: 1.		
HLYAK34	421604	8488	36 - 164	18240			L0745: 7, L0746: 3 and H0445: 1.		
HLYAJ49	723039	8489	150 - 383	18241			L0483: 1, L0750: 1 and H0445: 1.		
HLYAG59	888232	8490	157 - 441	18242	Ile-6 to Met-21.		AR051: 9, AR050: 3 H0445: 1		
HLTHS37	708613	8491	205 - 432	18243	Asp-1 to Asn-15, Pro-31 to Gly-41.		L0748: 2 and H0591: 1.		
HLTHS02	856560	8492	23 - 217	18244	Phe-42 to Thr-49, Ile-51 to Ser-56.		H0591: 1 and L0748: 1.		
HLTHC37	708620	8493	172 - 453	18245	Ser-21 to Glu-27, Asp-38 to Asn-45.		H0591: 1, L0659: 1 and L0439: 1.		
HLTGT83	780903	8494	23 - 199	18246			H0591: 1 and L0439: 1.		
HLTGT36	708027	8495	516 - 740	18247			L0796: 2, L0747: 2, H0591: 1 and L0791: 1.		
HLTGS17	662409	8496	350 - 502	18248	Pro-5 to Asn-12.		H0591: 1 and L0748: 1.		
HLTGR28	693990	8497	1 - 231	18249			H0591: 1 and L0748: 1.		
HLTGP47	719975	8498	182 - 379	18250	Gln-36 to Arg-52.		H0591: 1 and L0604: 1.		
HLTGO89	786674	8499	1 - 129	18251	Thr-24 to Ala-30.		H0591: 1 and L0439: 1.		
HLTGN92	791185	8500	153 - 242	18252			L0748: 3 and H0591: 1.		
HLTGA40	710728	8501	153 - 413	18253			L0758: 2, H0591: 1 and L0439: 1.		
HLTEZ30	960911	8502	209 - 331	18254	Leu-18 to Asp-33.		L0748: 2 and H0090: 1.		
HLTEZ19	671610	8503	2 - 172	18255	Ser-2 to Arg-7, Leu-48 to Trp-54.		L0748: 2, L0749: 2, H0090: 1, L0756: 1 and L0758: 1.		
HLTEX27	927578	8504	163 - 327	18256	Pro-27 to Asp-33.		H0090: 1 and L0748: 1.		
HLTEV66	772965	8505	1 - 192	18257	Lys-19 to Asn-38.		H0090: 1 and L0731: 1.		

HLTEP45	723375	8506	289 - 426	18258	Arg-1 to Lys-12.	H0090: 1 and L0362: 1.	
HLTEM25	678685	8507	2 - 190	18259	Cys-3 to Lys-11, Ile-30 to Phe-36.	H0090: 1 and L0766: 1.	
HLTEG51	494330	8508	597 - 298	18260		H0090: 1	
	514122	9708	169 - 435	19460			
HLTEG37	417243	8509	2 - 253	18261	Ser-58 to Gly-64.	H0090: 1 and L0789: 1.	
HLTEC83	574630	8510	52 - 165	18262	Asp-5 to Gly-11.	H0090: 1	
HLTEC35	574632	8511	131 - 247	18263	Asn-13 to Pro-21.	H0090: 1	
HLTEA20	669900	8512	298 - 594	18264	Ser-14 to Pro-19.	L0749: 2, H0090: 1, L0438: 1 and L0758: 1.	
HLTDR43	715529	8513	3 - 140	18265	Tyr-8 to Leu-19.	L0438: 2, L0754: 2, H0090: 1, L0803: 1, L0352: 1 and L0439: 1.	
HLTDJ17	577379	8514	370 - 603	18266		H0090: 1, L0766: 1, L0745: 1, L0747: 1 and L0779: 1.	
HLTDH96	796560	8515	165 - 287	18267		H0090: 1 and L0748: 1.	250100, 250800, 250800
HLTDG59	739699	8516	68 - 352	18268		H0090: 1 and L0748: 1.	
HLTDG30	693329	8517	3 - 119	18269	Cys-10 to Pro-16, Glu-34 to Pro-39.	H0090: 1 and L0746: 1.	
HLTDB38	456860	8518	262 - 432	18270		L0748: 2 and H0090: 1.	
HLTCZ55	732385	8519	142 - 270	18271	Pro-38 to Ser-43.	H0090: 1 and L0758: 1.	
HLTCX39	705648	8520	1 - 336	18272		H0090: 1 and L0596: 1.	
HLTCT77	772458	8521	165 - 368	18273		H0090: 1 and L0745: 1.	102770, 120280, 120280, 166600, 170995, 232400, 232400, 600309, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HLTCR77	772457	8522	154 - 303	18274		H0090: 1 and L0745: 1.	
HLTCR11	967559	8523	3 - 200	18275	Pro-54 to Lys-61.	H0090: 1 and L0363: 1.	
HLTCM59	442563	8524	2 - 208	18276		H0090: 1	
	739501	9709	26 - 241	19461	Lys-11 to Ser-16.		
HLTCI43	715530	8525	3 - 335	18277	Thr-16 to Arg-23,	H0090: 1 and L0439: 1.	



						Ser-35 to Leu-51, Arg-62 to Thr-75, Ser-80 to Ser-88.				
HLTCI11	967541	8526	152 - 295	18278		Gln-1 to Ser-6, Gln-23 to Phe-31.				H0090: 1, L0769: 1 and L0758: 1.
HLTCH41	507362	8527	93 - 365	18279		Lys-9 to Leu-21, Asn-49 to Arg-55, Gly-62 to Ser-69.				H0090: 1 and L0754: 1.
HLTBU47	720662	8528	235 - 354	18280						H0090: 1 and L0748: 1.
HLTBU44	522741	8529	175 - 447	18281		Lys-6 to Ser-13, Arg-29 to Arg-48, Val-50 to Ser-56.				H0090: 1
HLTBS07	954407	8530	2 - 106	18282						H0090: 1 and L0659: 1.
HLTBF58	735194	8531	157 - 354	18283						H0090: 1 and L0745: 1.
HLTBF56	907024	8532	302 - 526	18284		Asn-36 to Arg-48.				L0766: 3 and H0090: 1.
HLTBA68	733857	8533	241 - 420	18285		Tyr-1 to Lys-6.				L0439: 2, H0090: 1 and L0745: 1.
HLTBA41	712721	8534	273 - 491	18286		Tyr-44 to Asn-52, Ser-64 to Gln-69.				L0748: 2, H0090: 1 and L0749: 1.
HLTBA35	707243	8535	124 - 378	18287		Lys-17 to Ser-30, Gln-44 to Glu-52.				H0090: 1 and L0731: 1.
HLTAM07	954419	8536	3 - 215	18288		Ser-7 to Pro-13.				H0090: 1, L0766: 1 and L0776: 1.
HLTAK57	735163	8537	1 - 90	18289		Thr-24 to Ser-30.				H0090: 1 and L0756: 1.
HLTAA39	710361	8538	444 - 647	18290		Cys-1 to Trp-6.				L0740: 2, H0090: 1, L0439: 1 and L0777: 1.
HLTAA27	684649	8539	3 - 92	18291						L0754: 3 and H0090: 1.
HLMNU01	916641	8540	223 - 366	18292						H0255: 1 and L0766: 1.
HLMNQ18	666544	8541	245 - 442	18293						L0749: 3 and H0255: 1.
HLMMZ09	575837	8542	151 - 324	18294		Gly-1 to Trp-17, Ala-51 to Tyr-58.				H0255: 1
HLMMT20	830074	8543	80 - 166	18295						L0748: 2, H0255: 1, L0471: 1 and L0766: 1.
HLMMR90	575905	8544	1 - 522	18296		Gly-1 to Ser-8, Leu-21 to Gly-30.				AR051: 30, AR050: 30, AR054: 20 H0255: 1 and L0599: 1.

HLMK61	532605	8545	506 - 129	18297	Gln-9 to Trp-15, Thr-45 to Lys-50, Gln-61 to Leu-66, Trp-79 to Val-87.	AR051: 38, AR054: 35, AR050: 33 H0255: 1		
	856817	9710	197 - 3	19462				
	856818	9711	3 - 263	19463	Cys-1 to Gly-8, Gln-13 to Trp-19, Thr-49 to Lys-54, Gln-65 to Leu-70.			
	724485	8546	1 - 207	18298				
HLMK50						H0255: 1, L0534: 1 and L0757: 1.		
HLMME94	811320	8547	158 - 352	18299	Pro-9 to Lys-16.	H0255: 1 and L0754: 1.		
HLMMEF01	916816	8548	38 - 382	18300		H0255: 1 and L0766: 1.		
HLMME43	714439	8549	198 - 542	18301	Ser-20 to Arg-25, Gly-51 to Leu-58, Leu-84 to Glu-90.	L0748: 4, H0255: 1, L0761: 1, L0768: 1 and L0747: 1.		
HLMY59	878870	8550	153 - 356	18302	Val-39 to Asn-49.	H0255: 1		
HLMIG57	835799	8551	209 - 451	18303	Ala-6 to Glu-19, Ser-49 to Leu-56.	AR054: 19, AR050: 10, AR051: 2		
HLMHW80	775382	8552	177 - 446	18304	Pro-1 to Lys-6, Gly-27 to Lys-42.	H0255: 1 and L0754: 1. H0255: 1 and L0748: 1.		
HLMHT61	742044	8553	246 - 398	18305		H0255: 1 and L0754: 1.		
HLMHT49	722191	8554	253 - 411	18306		H0255: 1 and L0581: 1.		
HLMHL66	910804	8555	1 - 252	18307	Pro-32 to Ser-39.	AR050: 11, AR054: 10, AR061: 6, AR089: 3, AR051: 3		
						H0255: 1		
HLMHL03	856859	8556	183 - 1	18308	Lys-1 to Lys-15, Gln-50 to Arg-61.	H0255: 1 and L0603: 1.		
HLMFU46	718075	8557	276 - 443	18309	Arg-14 to Arg-21.	H0255: 1 and L0747: 1.		
HLMFL88	574812	8558	1 - 756	18310	Ala-61 to Glu-70, Pro-90 to Arg-98.	H0255: 1		
HLMFG79	974552	8559	49 - 234	18311	Thr-23 to Gly-29.	H0255: 1		
HLMFE91	531212	8560	3 - 434	18312		H0255: 1		
HLMFE79	531213	8561	190 - 402	18313		H0255: 1		

HLMFE17	531218	8562	2 - 151	18314			H0255: 1		
HLMFD62	754076	8563	140 - 289	18315		Pro-2 to Ser-7, Glu-26 to Pro-31.	L0439: 3 and H0255: 1.		
HLMDX01	921546	8564	160 - 414	18316			H0254: 1, L0748: 1 and L0777: 1.		
HLMDH08	960055	8565	1 - 258	18317		Glu-13 to Ser-22, Ser-34 to Pro-39, Lys-50 to Gly-61, Leu-63 to Lys-68.	L0748: 4, L0770: 2, H0254: 1, L0749: 1, L0777: 1 and L0599: 1.		
HLMDC26	684911	8566	132 - 377	18318		Gly-20 to Lys-32.	H0254: 1 and L0740: 1.		
HLMCL59	529908	8567	59 - 238	18319		Glu-22 to Lys-31.	L0748: 2 and H0254: 1.		
HLMCI55	741635	8568	3 - 344	18320		Pro-14 to Gly-21, Asp-24 to His-30, Ala-36 to Ala-51.	H0254: 1, L0756: 1 and L0758: 1.		
HLMBX91	879359	8569	94 - 627	18321		Pro-6 to Ser-15, Pro-87 to Arg-105, Gly-165 to Ala-170.	AR051: 13, AR054: 9, AR050: 3 H0255: 1		
HLMBQ54	730952	8570	94 - 369	18322		Arg-9 to Ser-26, Cys-55 to Lys-60.	H0255: 1 and L0748: 1.		
HLMBQ48	560848	8571	175 - 336	18323		Ser-39 to Arg-52.	H0255: 1		
	562006	9712	175 - 336	19464		Ser-39 to Arg-52.			
HLMEN04	615620	8572	84 - 254	18324			H0255: 1 and L0439: 1.		
HLMAY56	733708	8573	305 - 553	18325			L0777: 2 and H0254: 1.		
HLMAL82	523694	8574	3 - 113	18326			H0254: 1		
HLMAE86	852563	8575	88 - 291	18327			H0254: 1, L0766: 1, L0755: 1 and L0731: 1.		
HLLCD85	783454	8576	3 - 527	18328		Pro-2 to Asp-13, Pro-30 to Glu-37, Pro-56 to Lys-76, Lys-83 to Ile-98, Gly-105 to Ser-113, Gln-147 to Glu-152, Asp-154 to Lys-175.	H0354: 1, L0747: 1, L0750: 1 and L0591: 1.		
HLKDC76	953502	8577	157 - 867	18329			H0611: 1, L0740: 1, L0593: 1 and L0601: 1.	19p13.1	143890, 151440, 600173, 600276, 600310, 600310,

HLKDB78	773172	8578	105 - 278	18330	Ser-30 to Arg-39.	L0439: 2, H0611: 1 and L0756: 1.	601604, 601843
HLKDB02	918870	8579	126 - 269	18331	Lys-19 to Arg-36.	H0611: 1 and L0605: 1.	
HLEAN30	843294	8580	161 - 328	18332	Tyr-1 to Tyr-6.	H0073: 1	
	886013	9713	235 - 633	19465	Phe-43 to Met-48, Phe-89 to Trp-95, Ser-118 to Thr-130.		
HLCDA67	887375	8581	1 - 633	18333		AR054: 3, AR089: 2, AR061: 2, AR051: 1, AR050: 1 H0607: 1	
HKBBV11	965170	8582	237 - 398	18334	Ser-1 to Val-6, Gln-23 to Trp-33, Phe-36 to Arg-41.	L0471: 1 and H0625: 1.	
HKBBP05	928316	8583	34 - 171	18335		H0625: 1, L0761: 1 and L0748: 1.	
HKBAL06	934160	8584	265 - 540	18336		L0535: 2, H0625: 1 and L0759: 1.	
HKBAJ12	969644	8585	273 - 497	18337		L0766: 5 and H0625: 1.	
HKBAB02	918568	8586	522 - 226	18338		H0625: 1 and L0764: 1.	
HJUBA59	888006	8587	170 - 478	18339	His-26 to Leu-34, Pro-41 to Thr-54, Asp-64 to Ser-69.	AR051: 97, AR050: 79, AR054: 77 L0748: 3, H0129: 1, L0438: 1, L0439: 1, L0747: 1, L0749: 1, L0756: 1 and L0777: 1.	
HJTRB51	470587	8588	428 - 252	18340		H0022: 1 and L0766: 1.	
	618324	9714	261 - 443	19466			
	724786	9715	269 - 463	19467	Ser-7 to Met-12.		
	724787	9716	367 - 534	19468			
HJPDK80	418622	8589	726 - 914	18341	Pro-16 to Ser-28.	L0766: 2, L0749: 2, H0083: 1, L0777: 1 and L0590: 1.	
HJPDK57	768274	8590	1 - 195	18342	Pro-51 to Ser-56.	H0083: 1	
	857395	9717	597 - 860	19469			
HJPD116	518105	8591	13 - 237	18343	Pro-1 to Pro-17.	H0083: 1 and L0666: 1.	

HJPDE23	574115	8592	45 - 212	18344		H0083: 1		
HJPDD82	857401	8593	475 - 639	18345	Ser-30 to Asn-36.	L0748: 3, L0777: 2, H0083: 1, L0775: 1, L0744: 1, L0759: 1 and L0592: 1.		
HJPCW09	536677	8594	1 - 186	18346		H0083: 1	1q32.1	134580, 145260, 600105, 600759, 601975
HJPCV54	733607	8595	129 - 434	18347		H0083: 1 and L0751: 1.	17qter	
HJPCS54	871807	8596	473 - 619	18348		H0083: 1 and L0750: 1.		
HJPBP22	577455	8597	2 - 145	18349	Arg-39 to Arg-44.	H0083: 1	10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 601493, 602082
HJPBA04	615585	8598	172 - 423	18350		H0083: 1 and L0608: 1.		
HJPAZ91	882668	8599	1 - 522	18351	Ile-23 to Gly-28, Val-30 to Lys-35.	H0083: 1, L0740: 1, L0754: 1 and L0745: 1.		
HJPAY56	909242	8600	3 - 212	18352		AR061: 4, AR089: 3		
HJPAX11	967599	8601	367 - 483	18353		H0083: 1 and L0593: 1.		
HJPAT79	781697	8602	2 - 325	18354	Thr-4 to Thr-18, Leu-33 to Arg-43, Pro-66 to Gly-79.	H0083: 1, L0803: 1 and L0748: 1.		
HJPAG38	709103	8603	222 - 371	18355	Tyr-39 to Gly-44.	L0600: 3 and H0083: 1.		
HJPAA60	586675	8604	3 - 536	18356	Ile-73 to Thr-80, Asn-125 to Gln-136.	AR054: 9, AR089: 1, AR050: 1, AR061: 1, AR051: 0		
HJKSC56	578366	8605	248 - 421	18357		L0731: 2 and H0083: 1.		
HJBDM21	793381	8606	60 - 383	18358	Asn-54 to Gln-60, Phe-92 to Arg-98.	H0202: 1		
HJBDL70	757378	8607	65 - 709	18359	Phe-50 to Ser-58.	L0748: 2 and T0042: 1.		
HJBDG36	607769	8608	347 - 87	18360	Pro-34 to Tip-46.	L0439: 2 and T0042: 1.		
						T0042: 1		

	857433	9718	1 - 222	19470				
	895313	9719	527 - 778	19471				
	902075	9720	1098 - 1544	19472				
HJDBC63	745286	8609	214 - 423	18361	Ile-1 to Arg-12, Arg-14 to Thr-19.		T0042: 1 and L0604: 1.	
HJBDA11	967480	8610	470 - 700	18362	Leu-2 to Cys-13, Ser-32 to Cys-39.		L0777: 2, L0752: 2, T0042: 1, L0659: 1 and L0731: 1.	
HJBCZ05	925805	8611	19 - 867	18363			T0042: 1 and L0740: 1.	
HJBCM55	732411	8612	163 - 456	18364	Arg-1 to Pro-8, Ala-33 to Ala-39.		T0042: 1 and L0748: 1.	
HJBBG54	728810	8613	415 - 570	18365	Leu-5 to Gly-10, Pro-31 to Cys-52.		L0777: 2 and T0042: 1.	
HJBBF02	921242	8614	1 - 630	18366	Ile-1 to Ser-10, Gln-43 to Asp-49, Thr-118 to Thr-124, Ala-141 to Thr-146, Ser-155 to Glu-160.		L0599: 2, T0042: 1 and L0748: 1.	
HJBBE51	725948	8615	86 - 244	18367	Thr-23 to Lys-31.		T0042: 1 and L0748: 1.	
HJBBE07	954376	8616	325 - 471	18368			T0042: 1 and L0753: 1.	
HJBBD59	739633	8617	61 - 240	18369	Pro-1 to Arg-10, Pro-13 to Arg-19.		L0439: 2 and T0042: 1.	
HJBAP94	796835	8618	127 - 330	18370	Pro-22 to Pro-29.		L0591: 2, T0042: 1 and L0748: 1.	
HJAC160	577525	8619	84 - 233	18371			T0041: 1, L0740: 1 and L0754: 1.	
HJACH13	660943	8620	11 - 175	18372			L0439: 3, L0758: 3, L0779: 2, T0041: 1, L0771: 1, L0766: 1, L0803: 1, L0438: 1 and L0749: 1.	
HJABZ11	967665	8621	242 - 448	18373	Val-1 to Ser-8.		L0759: 2 and T0041: 1.	
HJABX39	709556	8622	189 - 656	18374	Pro-10 to Asn-16, Ser-63 to Glu-69, Ala-73 to Cys-79, Phe-83 to Thr-89, Trp-106 to Arg-120.		L0747: 2 and T0041: 1.	
HJABQ75	567249	8623	498 - 836	18375	Ser-1 to Ala-10,		T0041: 1	

HJABK84	783237	8624	1 - 567	18376	Leu-51 to His-71, Glu-79 to Gly-93.	L0740: 4 and T0041: 1.		
HJABK16	667399	8625	178 - 327	18377	Pro-10 to Glu-18, Leu-94 to Pro-100, Ser-106 to Asp-117, Thr-155 to Gly-162, Ser-169 to Val-178.	T0041: 1 and L0766: 1.		
HJABB93	791435	8626	40 - 303	18378	Leu-2 to Asn-11, Glu-24 to Ser-32.	L0748: 2, T0041: 1 and L0756: 1.		
HJAAZ32	699727	8627	92 - 214	18379	Gln-1 to Gly-7, Pro-43 to Gln-61, Cys-68 to Trp-76.	T0041: 1, L0790: 1, L0748: 1, L0745: 1 and L0759: 1.		
HJAAV85	783412	8628	76 - 183	18380	Pro-8 to Ala-26.	T0041: 1		
HJAAR02	921105	8629	111 - 269	18381		T0041: 1 and L0784: 1.		
HJAAO07	954263	8630	1 - 186	18382		T0041: 1 and L0385: 1.		
HJAAC22	779388	8631	236 - 409	18383	Met-1 to Pro-7.	T0041: 1 and L0439: 1.		
HJAAA83	928841	8632	241 - 432	18384	Lys-15 to Ser-29, Pro-34 to Pro-53.	L0777: 2, T0041: 1 and L0601: 1.		
HILBQ12	971556	8633	247 - 360	18385		T0002: 1 and L0766: 1.		
HILBC52	906873	8634	3 - 281	18386		L0748: 2 and T0002: 1.		
HILBC17	667204	8635	25 - 285	18387		L0777: 2 and T0002: 1.		
HHEZZ74	934486	8636	542 - 1630	18388	Glu-42 to Ser-70.	L0779: 2, L0800: 1, L0662: 1, L0740: 1, L0596: 1 and H0543: 1.		
HHEZT12	969437	8637	1 - 177	18389	Gln-1 to Lys-8, Val-12 to Cys-17, Met-32 to Phe-38, Pro-40 to Tyr-45.	L0769: 1 and H0543: 1.		
HHEZO92	942859	8638	1 - 546	18390	Val-18 to Trp-24, Ala-64 to Asp-69, Asn-88 to Arg-96, Ser-131 to Gly-137, Gly-150 to Thr-155, Gly-166 to Gly-174.	AR089: 15, AR061: 9 L0639: 1, L0748: 1, L0751: 1 and H0543: 1.		

HHEZN61	973136	8639	429 - 689	18391	Cys-8 to Pro-15, Pro-17 to Leu-23.	H0543: 1	
HHEYE64	973232	8640	329 - 601	18392	Trp-2 to Glu-7.	H0543: 1	
HHEXO05	930794	8641	972 - 1679	18393	Asp-14 to Glu-25, Tyr-109 to Pro-115, Pro-122 to Gly-127, Thr-142 to Lys-147, Leu-149 to Trp-164.	L0743: 2, L0750: 1, L0759: 1 and H0543: 1.	
HHEWX08	974405	8642	271 - 474	18394	Ser-51 to Pro-60.	H0543: 1	
HHEWX06	933879	8643	77 - 172	18395	Thr-18 to Ile-23.	L0785: 1, L0748: 1 and H0543: 1.	
HHEWT49	973142	8644	109 - 333	18396	Ser-23 to Ala-32, Gln-45 to Phe-52.	H0543: 1	
HHEWS01	914746	8645	241 - 414	18397		L0749: 1 and H0543: 1.	
HHEWQ10	963039	8646	2 - 121	18398	Gly-1 to Gly-6.	L0748: 1, L0749: 1 and H0543: 1.	
HHEWM53	973150	8647	170 - 382	18399	Leu-23 to Ser-35, Pro-66 to Ala-71.	H0543: 1	
HHEWG06	933874	8648	176 - 310	18400	Thr-13 to Phe-18, Asp-22 to Gly-29.	L0748: 1 and H0543: 1.	
HHEVZ06	933891	8649	2 - 193	18401	Asn-10 to His-15.	L0748: 1 and H0543: 1.	
HHEU76	906956	8650	544 - 227	18402		L0439: 1 and H0543: 1.	
HHEUP68	973215	8651	308 - 622	18403	Glu-27 to Asp-33, Glu-44 to Leu-51, Thr-59 to Pro-74.	H0543: 1	
HHEUL05	931045	8652	376 - 483	18404	Leu-1 to Ser-6.	L0438: 1 and H0543: 1.	
HHEUD79	774157	8653	3 - 230	18405	Asn-50 to Gly-56.	L0754: 1, L0756: 1 and H0543: 1.	
HHETR81	836730	8654	2 - 718	18406	Gly-1 to Ser-6, Pro-8 to Lys-16, Arg-67 to Cys-84, His-99 to Tyr-107, Met-133 to Cys-138, Pro-164 to Lys-170, Thr-172 to Lys-178.	L0766: 1 and H0543: 1.	
HHETP07	952217	8655	209 - 364	18407	Gly-32 to Phe-39.	L0608: 1 and H0543: 1.	



HHETN89	786361	8656	562 - 687	18408	Glu-11 to Gly-16.	L0747: 1 and H0543: 1.	
HHETN03	923009	8657	306 - 485	18409	Arg-55 to His-60.	L0659: 1 and H0543: 1.	
HHETK38	973120	8658	112 - 369	18410	Arg-1 to Ala-10, Arg-37 to Ser-44, Ser-54 to Asn-61.	H0543: 1	
HHETH36	901275	8659	212 - 424	18411	Gln-1 to Asp-30.	AR050: 13, AR054: 11, AR051: 3 H0543: 1	
HHESV83	780456	8660	3 - 122	18412	Glu-1 to Gly-9.	H0543: 1	
HHESV71	806332	8661	1 - 225	18413		H0543: 1	
HHESV93	791729	8662	281 - 436	18414		L0756: 2, L0742: 1 and H0543: 1.	
HHEQV46	718640	8663	2 - 286	18415	Lys-15 to Leu-27, Pro-29 to Trp-37, Lys-39 to Glu-54, Gly-61 to Ser-91.	L0766: 1, L0749: 1, L0755: 1 and H0543: 1.	
HHEQT07	952452	8664	1523 - 1738	18416	Gly-8 to Lys-18, Gly-22 to Thr-28, Gly-49 to Ser-54, Gln-56 to Phe-63, Glu-65 to Arg-72.	L0763: 1 and H0543: 1.	
HHEQP75	973104	8665	2 - 307	18417	Arg-15 to Arg-21, Leu-54 to Ser-62, Ser-73 to Phe-81, Glu-91 to Lys-102.	H0543: 1	
HHEQL50	723930	8666	215 - 469	18418		L0592: 1 and H0543: 1.	
HHEQK53	727812	8667	524 - 703	18419		L0754: 2 and H0543: 1.	
HHEQH22	723305	8668	215 - 370	18420	Thr-14 to Gly-23, His-29 to Phe-35.	L0764: 1, L0745: 1 and H0543: 1.	147557, 600881, 601954
HHEQC89	786603	8669	229 - 387	18421	Lys-19 to Tyr-28.	L0766: 1 and H0543: 1.	
HHEQC26	679505	8670	344 - 466	18422	Lys-31 to Val-40.	L0749: 1 and H0543: 1.	
HHEQB59	738866	8671	196 - 324	18423	Lys-1 to Glu-11.	L0439: 1 and H0543: 1.	
HHEQB23	675500	8672	26 - 157	18424		L0773: 1, L0748: 1 and H0543: 1.	
HHEPW95	588266	8673	2 - 181	18425	Ser-52 to Arg-58.	H0543: 1	
HHEPW40	588265	8674	152 - 298	18426		H0543: 1	

HHEPW11	966789	8675	161 - 322	18427			H0543: 1		
HHEPT05	912266	8676	2104 - 2349	18428		Lys-25 to Gln-34.	L0439: 1 and H0543: 1.		
	971711	9721	350 - 174	19473					
	971712	9722	307 - 414	19474					
	971713	9723	425 - 180	19475		Lys-25 to Gln-34.			
	971714	9724	288 - 61	19476		Phe-23 to Gln-48, Lys-56 to Gly-61.			
HHEPT03	923410	8677	41 - 355	18429		Ser-7 to Ser-14.	H0543: 1		
HHEPN71	588241	8678	1 - 249	18430		Leu-53 to Trp-64.	L0752: 1 and H0543: 1.		
HHEPM69	588235	8679	279 - 386	18431			H0543: 1		
HHEPG62	877268	8680	179 - 361	18432		Glu-38 to Asn-44.	L0439: 2, L0777: 2, L0394: 1, L0438: 1, L0744: 1, L0754: 1, L0779: 1, L0753: 1, L0759: 1 and H0543: 1.		
HHEPG59	925436	8681	274 - 474	18433		Phe-7 to Asn-14.	L0748: 1, L0747: 1 and H0543: 1.		
HHEPF21	956241	8682	217 - 357	18434			L0803: 1 and H0543: 1.		
HHEOG81	588155	8683	210 - 365	18435		Glu-19 to Asp-27.	L0755: 1 and H0543: 1.		
HHEOAG3	744995	8684	11 - 313	18436			L0748: 3 and H0543: 1.		
HHENY02	919775	8685	206 - 373	18437		Ile-7 to Cys-13.	L0386: 1 and H0543: 1.		
HHENW11	887661	8686	1 - 228	18438		Glu-26 to Lys-38, Ser-55 to Gln-63.	AR050: 71, AR054: 58, AR051: 53 H0543: 1.		
HHENQ08	959262	8687	68 - 259	18439		Thr-44 to Pro-55.	L0748: 2 and H0543: 1.		
HHENK21	858290	8688	2 - 310	18440		Pro-44 to Ser-51.	L0763: 1 and H0543: 1.		
HHENJ29	690576	8689	1 - 306	18441		Asp-4 to Gln-13, Val-22 to Gly-31, Glu-50 to Asp-63, Arg-70 to Asp-75, Ser-88 to Gly-94.	L0750: 1 and H0543: 1.		
HHEND53	728111	8690	196 - 486	18442		His-54 to Ala-59, Ser-64 to Asn-70.	L0439: 1 and H0543: 1.		
HHEHC71	757844	8691	142 - 387	18443		Leu-70 to Ser-82.	L0747: 1 and H0543: 1.		
HHEMZ66	586737	8692	2 - 364	18444		Pro-14 to Ala-29, Glu-50 to Thr-55.	AR050: 326, AR054: 257, AR051: 188 H0543: 1		

HHEMW78	773507	8693	738 - 541	18445	Gln-42 to Met-64.	L0766: 1 and H0543: 1.		
HHEMV01	916281	8694	3 - 161	18446		L0748: 2 and H0543: 1.		
HHEMQ68	752326	8695	22 - 123	18447		H0543: 1		
HHEMQ48	493733	8696	287 - 111	18448		AR050: 99, AR054: 97, AR051: 82 H0543: 1		
	839526	9725	1 - 162	19477	Pro-22 to Glu-33.			
	887668	9726	1 - 216	19478	Thr-33 to Gly-40, Pro-59 to Leu-64, Thr-66 to Lys-72.			
HHEMN37	708468	8697	2 - 217	18449	Trp-1 to Ser-11.	H0543: 1		
HHEMK77	772115	8698	3 - 104	18450	Thr-6 to Asn-11, Thr-24 to Lys-34.	H0543: 1		
HHEMK26	681595	8699	120 - 470	18451	Pro-38 to Pro-44, Gln-65 to Ala-73.	H0543: 1		
HHEMJ91	789443	8700	233 - 445	18452	Lys-25 to Lys-34.	L0747: 4, L0439: 1, L0362: 6p21.3-p21.2 1 and H0543: 1.	106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601690, 601868, 602280, 602475	
HHEMI69	755006	8701	371 - 174	18453	Pro-2 to Lys-12.	H0543: 1		
HHEMI56	469030	8702	257 - 66	18454	Gln-1 to Lys-13, Asp-54 to Asn-62.	H0543: 1		
HHEMI09	625459	8703	1 - 174	18455	Ser-27 to Gly-34, Ser-49 to Glu-54.	H0543: 1		
HHEMG02	917366	8704	325 - 122	18456		L0769: 1 and H0543: 1.		
HHEMG01	916297	8705	121 - 270	18457	Gln-23 to Val-33.	H0543: 1		

HHEMD56	733353	8706	2 - 292	18458	Gly-44 to His-50. Leu-12 to Ser-17.	L0766: 1, L0748: 1 and H0543: 1.		
HHEMC41	927255	8707	269 - 42	18459	Val-14 to Gln-19.	L0747: 2, L0753: 2, L0731: 2, L0750: 1 and H0543: 1.		
HHEMC10	969380	8708	309 - 596	18460	Asn-1 to Glu-7, Ile-70 to Trp-82.	AR050: 98, AR054: 85, AR051: 82, AR089: 28, AR061: 3 H0543: 1		
HHEMA35	467295	8709	390 - 623	18461	Thr-1 to Lys-9, Gln-60 to Pro-65.	L0748: 1 and H0543: 1.		
HHEMA07	933200	8710	190 - 369	18462		L0439: 2, L0804: 1, L0777: 1, L0731: 1 and H0543: 1.		
HHELA35	878217	8711	25 - 462	18463	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEKZ12	878267	8712	9 - 395	18464	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1		
HHEK170	955092	8713	39 - 215	18465	Phe-1 to Ser-8, Glu-45 to Met-53.	L0754: 1, L0747: 1 and H0542: 1.		
HHEJR35	878223	8714	1 - 249	18466		L0745: 2 and H0542: 1.		
HHEHK04	925717	8715	1 - 621	18467	Ser-16 to Gln-22.	L0777: 5 and H0542: 1.		
HHEHG38	943785	8716	2 - 583	18468	Cys-12 to Gly-19, Gly-28 to Leu-35, Lys-37 to His-42.	AR061: 5, AR089: 4 L0779: 1, L0777: 1 and H0542: 1.		
HHEGC05	930878	8717	124 - 258	18469	Gln-10 to Arg-17, Pro-34 to Tyr-45.	L0752: 1 and H0542: 1.		
HHEFN76	767770	8718	1 - 267	18470		L0748: 2 and H0542: 1.		
HHEFM41	711954	8719	580 - 738	18471	Lys-1 to Lys-8, Arg-22 to Leu-27.	L0586: 1 and H0542: 1.		
HHEEY63	744592	8720	400 - 537	18472	Arg-1 to Arg-20, Tyr-31 to His-36.	L0759: 1 and H0542: 1.		
HHEDN70	757106	8721	1 - 390	18473	Thr-63 to Phe-68, Asp-78 to Pro-85.	L0593: 1 and H0542: 1.		
HHEDN51	734118	8722	205 - 354	18474	Gly-15 to Leu-21.	H0542: 1		
HHEDN49	588136	8723	274 - 396	18475		L0369: 1 and H0542: 1.		
HHEDI54	588129	8724	76 - 276	18476		L0749: 1 and H0542: 1.		

HHEDB30	692086	8725	100 - 429	18477	Arg-1 to Gly-9, Gly-12 to Asn-21, Gly-32 to Pro-38.	L0750: 1 and H0542: 1.		
HHECT42	588098	8726	186 - 386	18478	Glu-13 to Glu-18, Pro-36 to Glu-59.	L0594: 2 and H0542: 1.		
HHECM62	934414	8727	148 - 330	18479		L0779: 2, L0596: 1 and H0542: 1.		
HHECA10	973228	8728	66 - 257	18480	Arg-35 to Gly-41.	H0542: 1		
HHEBQ68	752956	8729	3 - 200	18481	Ala-1 to Ala-6, Cys-34 to Gly-42, Cys-56 to Pro-61.	H0542: 1		
HHEBQ59	739216	8730	343 - 140	18482		H0542: 1		
HHEBO04	615127	8731	277 - 447	18483	Gln-28 to Leu-33.	H0542: 1		
HHEBM89	786088	8732	44 - 253	18484	Gln-44 to Leu-50, Tyr-52 to Lys-59.	H0542: 1	15q25	231680, 276700
HHEBM53	728087	8733	115 - 294	18485		H0542: 1		
HHEBJ08	858429	8734	163 - 435	18486		L0766: 2 and H0542: 1.		
HHEBB80	775424	8735	209 - 36	18487	Pro-15 to Arg-27, Pro-38 to Lys-51.	H0542: 1		
HHEBB22	858418	8736	85 - 300	18488	His-3 to Arg-9, Pro-15 to Glu-26, Ser-48 to Gly-61.	H0542: 1		
HHEBA86	785413	8737	1 - 138	18489	Pro-23 to Pro-34.	L0752: 1, L0731: 1, L0605: 1 and H0542: 1.		
HHEAL37	491205	8738	464 - 240	18490		H0542: 1		
	858421	9727	1 - 303	19479				
	858425	9728	100 - 261	19480	Cys-10 to Leu-16.			
	773538	8739	2 - 313	18491	Leu-7 to Cys-14, Glu-22 to Glu-36, Gln-57 to Lys-63, Asp-85 to Leu-97.	L0361: 2 and H0542: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
HHEAF06	935355	8740	169 - 381	18492	Val-3 to Leu-8.	L0518: 4, L0599: 1 and H0542: 1.		
HHEAD08	959305	8741	536 - 736	18493	Ser-12 to Phe-18.	L0794: 4, L0651: 1 and		

HHEAC20	668948	8742	1 - 459	18494	Ser-16 to Gly-25, Asp-33 to Asn-42, Cys-72 to Ser-85, Glu-98 to Glu-106, Glu-114 to Gly-130.	H0542: 1. H0542: 1		
HHEAA02	932265	8743	26 - 631	18495	Asn-1 to Gly-19, Ala-24 to Arg-30, Phe-53 to Arg-69, Gln-104 to Ser-110, Ser-116 to Thr-123.	L0593: 2 and H0542: 1.		
HFSBE12	970629	8744	132 - 317	18496		H0057: 1		
HFSBB12	971571	8745	424 - 218	18497		H0057: 1 and L0779: 1.		
HFSBB06	960835	8746	326 - 180	18498	Pro-14 to Ala-19.	L0766: 2 and H0057: 1.		
HFSAZ51	725973	8747	453 - 316	18499		L0749: 3, L0748: 2 and H0057: 1.		
HFSAX30	693419	8748	379 - 173	18500		H0057: 1 and L0756: 1.		
HFSAW27	684668	8749	132 - 1	18501		L0794: 2, H0057: 1, L0758: 1 and L0581: 1.		
HFSAU89	785904	8750	444 - 238	18502	Thr-1 to Ala-7.	H0057: 1 and L0748: 1.		
HFSAU84	781861	8751	105 - 1	18503	Leu-16 to Cys-22.	H0057: 1 and L0749: 1.		
HFSAT96	504394	8752	239 - 60	18504	His-3 to Asp-15.	H0057: 1 and L0748: 1.		
HFSAT48	720843	8753	465 - 331	18505	Cys-4 to Phe-10, Lys-40 to His-45.	L0666: 2, L0747: 2, L0731: 2, H0057: 1, L0804: 1, L0791: 1, L0779: 1 and L0780: 1.		
HFSAS86	785851	8754	196 - 107	18506	Tyr-5 to Ser-11, Phe-13 to Asp-23.	L0777: 2, H0057: 1 and L0754: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HFSAR68	675246	8755	398 - 207	18507	His-1 to Ser-25, Asp-32 to Lys-44.	H0057: 1		
	826790	9729	140 - 319	19481				
HFSAP25	677463	8756	344 - 249	18508	Leu-4 to Ser-10, Thr-19 to Asn-24.	H0057: 1 and L0748: 1.		
HFSAK31	504424	8757	185 - 60	18509	Gln-18 to Tyr-31.	H0057: 1		

HFSAK14	504431	8758	352 - 251	18510	Pro-5 to Ser-14.	L0748: 2 and H0057: 1.	
	504432	9730	72 - 209	19482	Lys-1 to Leu-9.		
HFSAL68	753858	8759	319 - 209	18511		L0748: 2 and H0057: 1.	
HFSAL34	526472	8760	697 - 524	18512		H0057: 1, L0775: 1, L0439: 1, L0740: 1 and L0747: 1.	
HFSAG03	960973	8761	496 - 320	18513	Glu-33 to Thr-45, Arg-50 to Ser-59.	AR089: 18, AR061: 11 H0057: 1, L0520: 1 and L0389: 1.	
HFSAP53	728528	8762	314 - 96	18514		H0057: 1 and L0588: 1.	
HEOQI52	850966	8763	21 - 323	18515		H0457: 1, L0521: 1, L0766: 1 and L0581: 1.	
HEOPY91	933173	8764	132 - 314	18516	Ala-21 to Ala-34, Ser-38 to Gln-50.	H0457: 1 and L0366: 1.	
HEOOA49	942561	8765	1 - 576	18517	Leu-42 to Asp-50, Pro-94 to Ala-100, Ser-169 to Gly-174.	AR089: 6, AR061: 2 H0457: 1	
HEONX61	741864	8766	2 - 235	18518		H0457: 1 and L0748: 1.	
HEONO64	746660	8767	158 - 427	18519		L0748: 3 and H0457: 1.	
HEONO59	741361	8768	325 - 756	18520		AR089: 5, AR061: 3 H0457: 1 and L0752: 1.	
HEONN02	840210	8769	64 - 225	18521		H0457: 1 and L0740: 1.	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HEONL19	575884	8770	170 - 325	18522		H0457: 1	
HEONL09	961147	8771	3 - 155	18523	Glu-30 to Lys-50.	H0457: 1	
HEONL06	935516	8772	244 - 414	18524		H0457: 1	
HEONK37	707505	8773	62 - 313	18525	Ser-1 to Asn-9.	L0754: 2 and H0457: 1.	
HEONK10	964757	8774	90 - 206	18526		H0457: 1 and L0747: 1.	
HEONJ18	575888	8775	30 - 338	18527	Arg-10 to Asp-15, Gly-33 to Gln-40, Ser-42 to Cys-49, Arg-60 to Asn-66,	H0457: 1	

HEONI92	792772	8776	330 - 602	18528	Gln-81 to Ala-87.	H0457: 1 and L0603: 1.	
HEOMX03	922962	8777	361 - 552	18529	Asp-1 to Ser-9.	H0457: 1	
HEOMX01	913683	8778	2 - 559	18530	Val-8 to Arg-18, Glu-40 to His-46, Pro-62 to Cys-69, Ser-105 to Ser-115, Pro-124 to Pro-129, Pro-139 to Ser-145, Ser-163 to Ser-169.	H0457: 1	
HEOMV61	506231	8779	3 - 326	18531	Pro-51 to Ser-65.	H0457: 1	
HEOMQ68	753075	8780	96 - 218	18532	Lys-1 to Phe-11.	H0457: 1 and L0599: 1.	
HEOMQ04	931032	8781	2 - 172	18533		L0756: 2 and H0457: 1.	
HEOML91	667931	8782	63 - 290	18534		H0457: 1	
HEOML76	575927	8783	93 - 224	18535	His-7 to Gln-12, Pro-14 to Lys-21.	H0457: 1	
HEOMH63	745146	8784	80 - 256	18536		H0457: 1 and L0745: 1.	
HEICC56	733383	8785	2 - 100	18537	Pro-1 to Gly-9, Arg-23 to Gln-33.	S0140: 1	
HEIBB84	781994	8786	2 - 406	18538		L0745: 2 and S0140: 1.	
HEIBB31	697987	8787	2 - 142	18539	Leu-29 to Ser-35.	S0140: 1 and L0777: 1.	
HEIBA15	888667	8788	197 - 427	18540		AR050: 12, AR051: 10, AR054: 10 S0140: 1	
HEIAX24	677177	8789	181 - 360	18541	Leu-7 to Gly-12, Glu-23 to Cys-29.	S0140: 1	
HEIAX11	967272	8790	2 - 289	18542	Thr-47 to Asn-55.	S0140: 1 and L0640: 1.	
HEIAU39	861503	8791	1 - 366	18543	Lys-1 to Ser-7, Phe-31 to Arg-43.	L0534: 1, S0140: 1, L0794: 1, L0790: 1 and L0791: 1.	
HEIAR07	953626	8792	186 - 410	18544	Ser-1 to Arg-14, Asp-27 to Gly-32, Gly-42 to Ala-48, Leu-65 to Ala-72.	S0140: 1 and L0592: 1.	
HEIAJ39	705643	8793	61 - 402	18545		S0140: 1 and L0766: 1.	
HEIAI86	785680	8794	34 - 135	18546	Ser-1 to Gly-19.	L0361: 2 and S0140: 1.	
HEIAD76	574163	8795	2 - 169	18547	Leu-11 to Gln-21.	S0140: 1	



HEIAC62	745672	8796	30 - 176	18548	Gln-38 to Gly-45.	S0140: 1		
HDTMJ27	851806	8797	316 - 495	18549		H0486: 1 and L0589: 1.		
HDTLI05	928253	8798	1 - 285	18550	Thr-1 to Met-6, Thr-8 to Asp-15, Thr-22 to Gln-27, His-36 to Val-44, Leu-55 to Asp-75, Ser-80 to Asp-95.	L0766: 3, L0754: 2, L0758: 2, H0486: 1 and L0748: 1.		
HDTLE28	851830	8799	2 - 172	18551	Phe-27 to Lys-34.	H0486: 1 and L0631: 1.		
HDTLB90	969209	8800	293 - 733	18552	Glu-24 to Ser-35.	L0753: 2, H0486: 1, L0774: 1 and L0749: 1.		
HDTKX61	806340	8801	105 - 521	18553	Pro-32 to Ser-46, Asn-58 to Pro-76.	H0486: 1 and L0747: 1.		
HDTJP10	963456	8802	293 - 469	18554	Lys-19 to Arg-25, Phe-27 to Phe-33, Pro-38 to Lys-44, Ser-49 to Asp-56.	H0486: 1, L0648: 1 and L0755: 1.		
HDTJF29	887186	8803	3 - 299	18555	Pro-15 to Gln-30, Pro-45 to Ala-50, Val-62 to Trp-67, Gln-79 to His-99.	AR054: 25, AR050: 21, AR051: 11 H0486: 1, L0779: 1 and L0777: 1.		
HDTJF05	931977	8804	10 - 486	18556	Pro-6 to Pro-18, Ala-35 to His-42, Gly-51 to Ser-58.	L0717: 1 and H0486: 1.		
HDTIO74	933606	8805	3 - 239	18557	Ile-37 to Arg-42.	AR061: 3, AR089: 1 H0486: 1 and L0748: 1.		
HDTIO16	934151	8806	2 - 673	18558	Val-14 to Arg-20, Arg-28 to Gln-33, Arg-106 to Trp-111.	AR089: 31, AR061: 2 H0486: 1		
HDTIG62	851951	8807	3 - 263	18559	Cys-65 to Gly-70.	L0766: 3, H0486: 1, L0749: 1 and L0779: 1.		
HDTIA48	851944	8808	2 - 271	18560	Pro-1 to Asp-20, Glu-25 to Pro-32, Asp-64 to Lys-72, Glu-85 to Leu-90.	H0486: 1 and L0779: 1.		
HDTIU79	774217	8809	83 - 385	18561	Thr-17 to Arg-41,	L0757: 2 and H0486: 1.		

HDTHS05	926048	8810	462 - 896	18562	Arg-49 to Cys-57. Phe-42 to Gly-57, Ala-60 to Ser-73, Pro-91 to Gly-101, Lys-108 to Gln-116.	H0486: 1 and L0777: 1.		
HDTHP45	841796	8811	23 - 160	18563	Glu-8 to Ser-16.	H0486: 1		
HDTHI02	918728	8812	120 - 266	18564	Ser-29 to Lys-35.	L0759: 3 and H0486: 1.		
HDTHG69	754464	8813	70 - 234	18565		H0486: 1 and L0748: 1.		
HDTHE32	851964	8814	230 - 490	18566		L0790: 2, L0749: 2, H0486: 1 and L0363: 1.		
HDTHA77	771334	8815	458 - 312	18567		L0748: 2, H0486: 1, L0743: 1 and L0731: 1.		
HDGTG62	742828	8816	22 - 180	18568		L0748: 2 and H0486: 1.		
HDGTGQ31	697539	8817	3 - 380	18569		H0486: 1 and L0747: 1.		
HDIGH10	963966	8818	140 - 3	18570	Leu-10 to Gln-20.	L0779: 2 and H0486: 1.		
HDGTC27	682687	8819	313 - 429	18571		H0486: 1 and L0748: 1.		
HDTFX46	915075	8820	265 - 501	18572		H0486: 1 and L0748: 1.		
HDFT42	713399	8821	259 - 474	18573		H0486: 1 and L0766: 1.		
HDFTFR93	792077	8822	38 - 298	18574	Glu-39 to Lys-49.	H0486: 1 and L0439: 1.		
HDFTFN38	706752	8823	205 - 408	18575	Ser-10 to Tyr-17.	H0486: 1, L0471: 1, L0745: 1 and L0756: 1.		
HDTFI27	682705	8824	92 - 382	18576		L0803: 6, L0805: 2, L0439: 2, H0486: 1, L0809: 1, L0779: 1 and L0777: 1.	181430, 217300, 600698, 600698, 600698, 600698, 600808, 602116	
HDTFGI5	913812	8825	40 - 333	18577	Ile-8 to Phe-15, Glu-27 to Met-32, Asp-63 to Trp-72.	L0361: 2, H0486: 1, L0766: 1 and L0439: 1.		
HDTEI62	587822	8826	111 - 332	18578		H0486: 1, L0745: 1 and L0746: 1.		
HDTEJ57	872215	8827	1 - 429	18579	Gly-1 to His-9, Ala-33 to Pro-39.	L0741: 2 and H0486: 1.		
HDIDS89	799881	8828	120 - 233	18580		H0486: 1		
HDIDS44	799863	8829	138 - 266	18581	Lys-8 to Pro-13.	H0486: 1		
HDIDP20	883680	8830	1 - 384	18582	Leu-60 to His-67.	L0483: 2 and H0486: 1.	7q32	180105, 190900, 222800, 246900

HDTDP02	919572	8831	1 - 255	18583	Pro-10 to Ser-20.	H0486: 1 and L0756: 1.		
HDTDL15	851999	8832	15 - 245	18584	Thr-61 to Asn-69.	L0546: 4, H0486: 1 and L0779: 1.		
HDTDJ44	587742	8833	179 - 439	18585		L0746: 2, L0753: 2, H0486: 1, L0606: 1 and L0745: 1.		
HDTDG89	799870	8834	221 - 382	18586	Gln-27 to Val-34.	H0486: 1		
HDTDD88	615173	8835	113 - 439	18587	Arg-23 to Arg-29, Arg-40 to Pro-54.	H0486: 1		
HDTDD72	587710	8836	162 - 371	18588		AR089: 159, AR061: 142 H0486: 1	113721, 247200, 600059, 601545	
HDTDD70	757088	8837	327 - 446	18589	Asn-21 to Arg-37.	H0486: 1		
HDTDD67	754739	8838	3 - 335	18590	Glu-1 to His-9, Ala-11 to Thr-19.	H0486: 1		
HDTDD15	668754	8839	9 - 188	18591		H0486: 1	15q22	102578, 109700, 151670, 154550, 601780
HDTDC74	799868	8840	138 - 305	18592	Leu-2 to Lys-8, Ala-19 to Gly-35, Pro-37 to Asn-45, Lys-50 to Gln-56.	H0486: 1		
HDTDC64	799871	8841	219 - 389	18593		H0486: 1		
HDTDC38	706741	8842	335 - 523	18594	Ala-26 to Ser-36.	L0748: 2 and H0486: 1.	6q26-q27	100678, 147280, 152200, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
HDTDC30	692063	8843	15 - 290	18595		H0486: 1		
HDTDB37	587699	8844	105 - 404	18596	Glu-1 to Ser-10, Ser-24 to Ala-29.	H0486: 1, L0471: 1, L0745: 1 and L0777: 1.		
HDTDB21	587700	8845	258 - 61	18597	Ile-15 to Asn-24, Lys-61 to Lys-66.	L0747: 2, H0486: 1 and L0766: 1.		
HDTCC55	934923	8846	195 - 911	18598	Ser-26 to Ser-32.	H0486: 1 and L0766: 1.		
HDTCC01	916455	8847	371 - 562	18599		H0486: 1, L0506: 1, L0508: 1, L0493: 1 and L0758: 1.		
HDTBZ83	842950	8848	2 - 454	18600	Arg-1 to Gly-15.	H0486: 1		

HDTBV06	935393	8849	37 - 198	18601			H0486: 1 and L0809: 1.
HDTBU73	764410	8850	538 - 720	18602	Gly-24 to Ile-30.		H0486: 1, L0748: 1 and L0747: 1.
HDTBT35	706730	8851	1 - 306	18603			L0521: 2, H0486: 1, L0740: 1, L0756: 1 and L0779: 1.
HDTBS91	789425	8852	2 - 520	18604	Glu-1 to Leu-18.		H0486: 1 and L0439: 1.
HDTBS45	591589	8853	289 - 2	18605			L0749: 2, H0486: 1, L0637: 1 and L0748: 1.
HDTBR39	705350	8854	452 - 742	18606			H0486: 1 and L0758: 1.
HDTBP84	783024	8855	78 - 275	18607	Leu-1 to Ala-6.		H0486: 1 and L0750: 1.
HDTBM53	727526	8856	25 - 150	18608			H0486: 1
HDTBM31	697918	8857	136 - 372	18609	Glu-18 to Cys-23, Asp-74 to Ser-79.		L0750: 2 and H0486: 1.
HDTBK62	742603	8858	45 - 221	18610	His-26 to Cys-41, Lys-54 to Lys-59.		H0486: 1
HDTBG80	916167	8859	173 - 478	18611	Lys-34 to Arg-41.		H0486: 1 and L0362: 1.
HDTBD67	899636	8860	252 - 1175	18612	Pro-20 to Pro-29, Phe-42 to Val-52, Leu-106 to Pro-113, Arg-134 to Gly-139, Ala-207 to Asn-213, Thr-227 to Phe-239.		AR054: 32, AR051: 10, AR089: 3, AR061: 2, AR050: 2, H0486: 1
	902517	9731	2 - 838	19483	Phe-13 to Val-23, Leu-77 to Pro-84, Arg-105 to Gly-110, Ala-178 to Asn-184, Thr-198 to Phe-210.		
HDTAU14	658429	8861	66 - 176	18613			H0486: 1 and L0745: 1.
HDTAT80	911928	8862	105 - 281	18614	Gly-44 to Thr-50.		H0486: 1
HDTAP53	728216	8863	234 - 329	18615			H0486: 1 and L0748: 1.
HDTAH15	840327	8864	180 - 476	18616			H0486: 1, L0747: 1 and L0731: 1.
HDTAE60	810259	8865	36 - 167	18617	Val-32 to Gln-37.		H0486: 1 and L0748: 1.
HDTAE44	799902	8866	260 - 397	18618			H0486: 1 and L0438: 1.
HDTAE29	780991	8867	99 - 332	18619			H0486: 1
HDTAE16	661997	8868	206 - 439	18620	Ala-12 to Ser-17.		H0486: 1

HDTAE09	799874	8869	153 - 305	18621	Ser-24 to Ser-30, Pro-73 to His-78.	H0486: 1	Xq13.1-q13.3	304040, 305100, 305450, 309605, 312760, 314250, 314580
HD TAB89	786039	8870	113 - 310	18622	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	H0486: 1 and L0748: 1.		
HD TAA31	937609	8871	1100 - 1432	18623	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	AR089: 14, AR061: 4 H0486: 1 and L0779: 1.		
	941948	9732	1100 - 1432	19484	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.			
HDRAC08	963325	8872	224 - 33	18624	Ser-6 to Ser-11, Thr-55 to Pro-60.	H0537: 1 and L0439: 1.		
HDQPR06	936658	8873	2 - 202	18625	Ser-8 to Glu-20, Glu-26 to Gln-36.	H0522: 1, L0751: 1, L0777: 1 and L0594: 1.		
HDQPP57	926953	8874	64 - 180	18626	Lys-34 to Ser-39.	H0522: 1 and L0748: 1.		
HDQII08	958252	8875	338 - 469	18627	Arg-8 to Ile-13.	H0521: 1 and L0749: 1.		
HDQHU84	782202	8876	1 - 171	18628	Pro-15 to Gly-25, Gly-29 to Trp-41.	L0748: 3 and H0521: 1.		
HDQHO94	793387	8877	1 - 126	18629	Ser-8 to Ser-21, Thr-46 to Asp-55, Lys-91 to Gly-97, Glu-103 to Asp-115, Gln-125 to Ala-135, Pro-137 to Ser-143, Lys-154 to Phe-163.	L0766: 1 and H0521: 1.		
HDQHU04	926978	8878	3 - 614	18630	Ser-1 to Trp-9, Gln-35 to Lys-40.	L0370: 1 and H0521: 1.		
HDQGW10	963512	8879	46 - 267	18631	Gln-30 to Pro-35.	L0367: 1, H0521: 1 and L0439: 1.		
HDQGF78	772952	8880	352 - 480	18632	Ser-63 to Lys-68.	H0521: 1 and L0748: 1.		
HDQFT10	852587	8881	121 - 324	18633	Gly-74 to Thr-80.	L0375: 1 and H0521: 1.		
HDQFJ39	852593	8882	197 - 469	18634		L0766: 1 and H0521: 1.		

HDQFE93	791724	8883	870 - 1046	18635			L0439: 4, H0521: 1 and L0740: 1.		
HDQEX85	875473	8884	2 - 409	18636			H0521: 1, L0748: 1 and L0749: 1.		
HDQEW83	780551	8885	2 - 283	18637			L0731: 2 and H0521: 1.		
HDQEW11	966126	8886	190 - 2	18638		Ser-5 to Thr-11, Cys-21 to Gly-26, Arg-51 to Gly-63.	L0519: 1 and H0521: 1.		
HDQET29	852618	8887	77 - 274	18639		Gly-11 to Lys-22.	H0521: 1 and L0748: 1.		
HDQEQ10	963533	8888	380 - 550	18640		Pro-41 to Thr-48.	L0766: 2, L0545: 1 and H0521: 1.		
HDQEI46	957666	8889	424 - 266	18641			H0521: 1 and L0748: 1.		
HDQEF93	791753	8890	121 - 369	18642		Gly-21 to Val-28.	L0743: 3 and H0521: 1.		
HDQDX89	786323	8891	2 - 709	18643		Gly-16 to Glu-27, Asn-40 to Ser-54, Ser-71 to His-79, Ile-102 to Leu-107, Glu-114 to Gln-120, Gly-127 to Gly-137, Pro-160 to Lys-177, Gln-187 to Thr-199.	L0740: 2 and H0521: 1.		
HDQDT10	963482	8892	432 - 283	18644		Pro-4 to Asp-9.	H0521: 1, L0749: 1 and L0779: 1.		
HDQDG73	761957	8893	209 - 418	18645		Thr-10 to Asn-15, Pro-31 to Pro-42, Pro-47 to Thr-52.	H0521: 1 and L0750: 1.		
HDQDC74	764985	8894	136 - 270	18646		Tyr-21 to Ala-28.	H0521: 1 and L0588: 1.		
HDPYO08	958454	8895	139 - 357	18647			L0384: 1, H0521: 1 and L0779: 1.		
HDPXZ28	686188	8896	462 - 665	18648			L0794: 2, L0770: 1, L0638: 1, L0773: 1, L0804: 1, L0805: 1, H0521: 1, L0745: 1, L0755: 1 and L0731: 1.		
HDPXW88	631353	8897	357 - 187	18649		Cys-3 to His-8, Pro-11 to Gln-21.	L0766: 1 and H0521: 1.		
HDPXO03	923602	8898	375 - 521	18650		Lys-1 to Asn-9.	H0521: 1 and L0748: 1.		

HDPXN01	915919	8899	69 - 230	18651	Ser-48 to Ser-53.	AR089: 9, AR061: 4 L0794: 5, L0439: 2, L0747: 2, H0521: 1, L0779: 1, L0777: 1 and L0594: 1.	
HDPXL71	760140	8900	27 - 275	18652	Ala-21 to Asp-30.	H0521: 1 and L0745: 1.	
HDPXD40	974493	8901	129 - 320	18653	Glu-5 to Cys-16.	H0521: 1	
HDPXD08	958826	8902	124 - 336	18654	Val-2 to Glu-10, Gln-62 to Arg-71.	L0766: 1 and H0521: 1.	
HDPXC56	974490	8903	76 - 564	18655	Gln-2 to Leu-8, Thr-30 to Pro-41.	H0521: 1	
HDPXB75	786320	8904	2 - 382	18656	Glu-61 to Gly-66, Thr-75 to Gln-82.	H0521: 1	
HDPWX53	727595	8905	2 - 301	18657		H0521: 1, L0748: 1 and L0756: 1.	
HDPWT92	791223	8906	331 - 567	18658	Gly-1 to Ser-6, Ser-21 to Ser-37.	H0521: 1 and L0748: 1.	
HDPWR03	923608	8907	261 - 28	18659	Met-20 to Arg-30, Pro-54 to Glu-65.	H0521: 1 and L0752: 1.	
HDPWN56	733129	8908	3 - 425	18660	Arg-24 to Asp-33, Pro-45 to Glu-55, Glu-81 to Gln-102, Leu-111 to Met-120.	H0521: 1 and L0743: 1.	
HDPWK75	793234	8909	36 - 299	18661	Pro-1 to Pro-10.	H0521: 1 and L0754: 1.	256540, 600281, 600281
HDPWH75	956201	8910	34 - 309	18662	Pro-32 to Pro-43.	L0748: 2 and H0521: 1.	
HDPVC01	915816	8911	323 - 595	18663		H0521: 1 and L0759: 1.	
HDPW82	921279	8912	216 - 91	18664	Gln-22 to Asp-29, Pro-37 to Thr-42.	H0521: 1 and L0439: 1.	
HDPUV65	747646	8913	248 - 538	18665	Lys-10 to Pro-19, Ile-28 to Ala-33.	H0521: 1 and L0439: 1.	
HDPUV11	966558	8914	436 - 618	18666		L0439: 3, L0748: 2 and H0521: 1.	
HDPUR51	914406	8915	233 - 3	18667	Gly-12 to Asn-17, Ala-67 to Lys-77.	L0599: 2, L0766: 1, L0775: 1, L0776: 1, H0521: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, L0480: 1 and	

HDPUN39	957580	8916	1819 - 1067	18668	Leu-18 to Ser-24, Pro-46 to Glu-51, Ala-81 to Glu-89.	L0596: 1. AR089: 2, AR061: 1 L0755: 2, L0662: 1 and H0521: 1.		
HDPUI44	715971	8917	53 - 250	18669		L0748: 2, L0749: 2, L0664: 1 and H0521: 1.		
HDPTO65	747206	8918	37 - 294	18670	Thr-72 to Lys-81.	H0521: 1 and L0608: 1.		
HDPTL59	739068	8919	14 - 388	18671	Arg-8 to Gly-17.	H0521: 1 and L0581: 1.		
HDPTA43	715038	8920	192 - 419	18672	Lys-22 to Ser-31.	H0521: 1 and L0599: 1.	3q25-q29	106165, 165500, 222900, 276902
HDPTD58	735750	8921	298 - 462	18673		H0521: 1 and L0748: 1.		
HDPSW93	973098	8922	103 - 330	18674	Trp-2 to Ser-9.	H0521: 1		
HDPSW82	779614	8923	25 - 417	18675	Gln-7 to Gln-15, Arg-61 to Cys-75, Ser-82 to His-92.	L0749: 2 and H0521: 1.		
HDPSL71	969286	8924	157 - 294	18676	Thr-18 to Gly-23, Val-27 to Gly-32.	L0648: 1, L0803: 1, L0774: 1, L0659: 1, L0665: 1, H0521: 1 and L0758: 1.	1q22-q24	104770, 107300, 107670, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491
HDPSK64	746370	8925	1 - 633	18677	Arg-13 to Ser-30, Thr-40 to Asp-52.	H0521: 1 and L0749: 1.		
HDPSK53	727586	8926	1 - 474	18678	Leu-25 to Gln-32, Ile-48 to Glu-53, Glu-69 to Cys-78.	L0601: 2 and H0521: 1.		
HDPSI13	656729	8927	257 - 394	18679		H0521: 1 and L0748: 1.		
HDPSB10	961309	8928	1 - 444	18680	Met-14 to Pro-24, Lys-31 to Glu-36, His-70 to Gly-76.	AR089: 1, AR061: 0 L0665: 1 and H0521: 1.		
HDPSA86	785293	8929	452 - 219	18681		H0521: 1 and L0439: 1.		
HDPRW01	915993	8930	91 - 294	18682	Gly-1 to Ser-6,	H0521: 1 and L0731: 1.		



HDP RS89	887682	8931	3 - 341	18683	Gln-23 to Ser-38, Asn-54 to Lys-63, Thr-69 to Phe-74, Trp-98 to Ser-108.	AR050: 58, AR054: 55, AR051: 47 H0521: 1		
HDP RR24	914667	8932	111 - 410	18684	Asn-65 to Arg-71.	H0521: 1 and L0745: 1.		
HDP RK07	948672	8933	12 - 158	18685	Arg-1 to Thr-11, Ser-19 to Leu-25.	L0766: 1, H0521: 1 and L0779: 1.		
HDP RJ04	909040	8934	3 - 419	18686	Lys-21 to His-27, Phe-44 to Arg-55, Lys-72 to Lys-80, Glu-88 to Thr-94.	AR089: 0, AR061: 0 H0521: 1 and L0758: 1.		
HDP RE41	712124	8935	378 - 232	18687	His-20 to Thr-25.	H0521: 1 and L0754: 1.		
HDP RA51	725103	8936	2 - 175	18688	Arg-27 to Ser-32.	H0521: 1		
HDP QV82	779421	8937	13 - 327	18689	Gly-5 to Gly-11, Lys-38 to Lys-43.	H0522: 1 and L0748: 1.		
HDP QR07	952337	8938	500 - 604	18690		H0522: 1 and L0779: 1.		
HDP QI68	955006	8939	14 - 508	18691	Glu-42 to Asp-47, Gly-54 to Gly-61, Pro-67 to Asn-73, Lys-145 to Asn-151.	L0752: 2, L0659: 1, H0522: 1 and L0779: 1.		
HDP QH06	934616	8940	66 - 275	18692	Arg-12 to Arg-20, Phe-34 to Lys-45, Pro-65 to Asp-70.	L0794: 1 and H0522: 1.		
HDP QF03	923120	8941	5 - 748	18693		AR054: 9, AR050: 7, AR051: 2 L0769: 1, H0522: 1, L0744: 1 and L0754: 1.		
HDP QC63	744461	8942	18 - 302	18694	Asn-16 to Arg-21, Arg-35 to Ile-41.	H0522: 1 and L0748: 1.		
HDP QA64	872237	8943	3 - 266	18695	Pro-6 to Arg-19, Pro-25 to Cys-30, Pro-33 to Arg-40.	H0522: 1 and L0596: 1.		
HDP PP29	690497	8944	138 - 1	18696	Ser-30 to Gly-45.	H0522: 1 and L0759: 1.		
HDP PB17	662917	8945	1 - 387	18697	Pro-17 to Gly-34, Asp-59 to Val-72, His-77 to Asp-87.	H0522: 1 and L0740: 1.		

HDPOX03	923856	8946	320 - 132	18698	Ser-107 to Thr-121.	H0522: 1 and L0749: 1.	
HDPO78	773487	8947	223 - 456	18699	Asn-9 to Asn-15. Ser-1 to Tyr-7, Tyr-19 to Val-25, Leu-30 to Thr-35, Ile-47 to Asn-56, Ile-68 to His-75.	L0753: 2, H0522: 1, L0740: 1 and L0750: 1.	
HDPOP03	923843	8948	185 - 439	18700	Thr-10 to Tyr-15, Gly-66 to Ile-81.	H0522: 1 and L0756: 1.	
HDPOC02	919597	8949	344 - 631	18701	Arg-16 to Gly-22.	L0439: 2, H0522: 1, L0779: 1 and L0731: 1.	
HDPNJ73	764407	8950	1 - 228	18702	Val-1 to Ser-12, Ser-18 to Arg-23.	H0522: 1 and L0603: 1.	
HDPND09	607575	8951	323 - 165	18703	Arg-20 to Asp-25, Gly-37 to Val-47.	H0522: 1	
	874076	9733	308 - 18	19485	Pro-8 to Arg-13, Thr-39 to Gln-48.		
	897723	9734	425 - 291	19486	Glu-22 to Cys-28, Leu-40 to Lys-45.		
HDPNC22	674539	8952	407 - 715	18704	Glu-1 to Glu-6, Asp-11 to Gln-18, Pro-20 to Tyr-25, Pro-27 to Lys-38.	L0748: 6, L0749: 2, H0522: 1 and L0752: 1.	
HDPMV35	706647	8953	191 - 349	18705		H0522: 1 and L0752: 1.	
HDPMR81	493958	8954	422 - 189	18706	Ala-1 to Pro-11, Lys-18 to Leu-31, Met-59 to Arg-64.	H0522: 1	
	584265	9735	1 - 282	19487	Thr-2 to Glu-9, Ser-11 to Lys-16, Ile-65 to Arg-77.		
HDPMH51	725029	8955	3 - 224	18707	Asn-14 to Tyr-22, Lys-44 to Ser-50.	L0746: 3, H0522: 1 and L0748: 1.	
HDPMG46	934144	8956	274 - 2	18708		H0522: 1 and L0780: 1.	
HDPLV29	849526	8957	224 - 439	18709	Glu-35 to Tyr-46.	L0766: 2 and H0521: 1.	
HDPLU84	782061	8958	163 - 318	18710	Lys-9 to Gln-14, Thr-40 to Cys-49.	H0521: 1 and L0748: 1.	

HDPLT62	973945	8959	405 - 809	18711		AR089: 1, AR061: 0 H0521: 1		
HDPKI78	773469	8960	19 - 126	18712		H0521: 1 and L0749: 1.		
HDPKA03	923841	8961	267 - 407	18713		L0740: 4, L0777: 2, L0803: 1 and H0521: 1.		
HDPJX07	952966	8962	350 - 574	18714	Gly-2 to Gln-12, Asp-68 to Asp-73.	L0769: 1, L0803: 1, H0521: 1 and L0758: 1.		
HDPJP44	716466	8963	91 - 360	18715	Asp-43 to Cys-50.	L0803: 7, L0794: 5, L0804: 5, L0775: 3, L0789: 2, L0805: 1, L0776: 1, L0809: 1, H0521: 1, L0747: 1, L0779: 1 and L0758: 1.		
HDPJK23	488326	8964	2 - 355	18716	Lys-74 to Arg-80.	H0521: 1 and L0757: 1.		
HDPJB19	887886	8965	3 - 293	18717	Gln-12 to Lys-19.	AR050: 112, AR051: 76, AR054: 75 H0521: 1		
HDPJA07	953001	8966	46 - 243	18718	Ser-2 to Ser-10.	H0521: 1 and L0745: 1.		
HDPJW95	933240	8967	181 - 774	18719	Gln-66 to Asn-71, Ala-130 to Gln-135, Leu-137 to Asn-144, Thr-154 to Ser-163.	L0779: 2, H0521: 1, L0745: 1 and L0758: 1.		
HDPJIV34	703959	8968	328 - 489	18720	Thr-9 to Asn-19.	H0521: 1 and L0754: 1.		
HDPJQ24	771939	8969	141 - 485	18721	Arg-17 to Gly-23, Ala-37 to Ser-46, His-78 to Leu-85, Ser-103 to Lys-110.	H0521: 1 and L0595: 1.		
HDPJP06	935198	8970	444 - 569	18722		H0521: 1 and L0748: 1.		
HDPJL73	764344	8971	34 - 213	18723	Phe-1 to Thr-7, Gly-46 to Leu-59.	H0521: 1		
HDPJL01	916221	8972	206 - 343	18724	Gly-19 to His-27.	H0521: 1		
HDPJF78	881960	8973	130 - 360	18725		H0521: 1		
HDPJF66	750575	8974	51 - 443	18726	Cys-48 to Gln-60, Gln-78 to Gln-86.	H0521: 1	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238.

									601846, 602216, 602477
HDPID54	729441	8975	239 - 469	18727		Pro-7 to Thr-12, Thr-17 to Thr-26.		H0521: 1 and L0439: 1.	
HDPID88	415993	8976	2 - 241	18728		Ser-1 to Leu-17, Gln-22 to Gly-29, Cys-32 to Trp-39, Ser-45 to Ser-64.		H0521: 1	
HDPID53	728058	8977	222 - 401	18729		Ala-19 to Glu-26.		H0521: 1	
HDPID21	827350	8978	1 - 192	18730				H0521: 1	
HDPHF37	706622	8979	54 - 209	18731				H0521: 1	
HDPHA89	786078	8980	111 - 437	18732		Glu-12 to Gln-17, Lys-25 to His-35.		L0745: 2, H0521: 1, L0741: 1 and L0746: 1.	
HDPHA40	711126	8981	1 - 162	18733		Pro-4 to Arg-12, Leu-30 to Thr-36.		H0521: 1 and L0749: 1.	
HDPHA37	812336	8982	2 - 508	18734		Gln-14 to Gly-20, Pro-35 to Gly-42, Leu-55 to Pro-62, Gln-92 to Asp-104, Ser-130 to Lys-136, Lys-145 to Ala-153, His-155 to Thr-161.		H0521: 1	
HDPHA34	704036	8983	264 - 512	18735				H0521: 1 and L0748: 1.	
HDPGX15	660089	8984	43 - 315	18736				H0521: 1	
HDPGX10	964519	8985	419 - 550	18737				L0766: 1 and H0521: 1.	
HDPGX03	924010	8986	242 - 388	18738				H0521: 1	
HDPGT96	973363	8987	1 - 237	18739		His-20 to Asp-26.		H0521: 1	
HDPGS93	792256	8988	239 - 466	18740		Phe-21 to Gly-37, Leu-63 to Asn-76.		H0521: 1	
HDPGS45	921381	8989	24 - 236	18741				L0748: 3 and H0521: 1.	
HDPGS43	715232	8990	39 - 212	18742		Arg-15 to Pro-21, Gln-44 to Ala-57.		L0794: 1, L0766: 1, H0521: 1, L0750: 1, L0777: 1 and L0759: 1.	
HDPGS16	909833	8991	188 - 460	18743		Asp-40 to Leu-46, Phe-50 to Arg-61, Pro-76 to Asp-83.		AR061: 0, AR089: 0 H0521: 1 and L0758: 1.	

HDPGS01	916352	8992	58 - 204	18744	Pro-6 to Gly-13.	H0521: 1	
HDPGR44	468389	8993	1 - 225	18745	Gly-1 to Ile-10, Pro-22 to Gly-27.	H0521: 1	
HDPGN15	394693	8994	195 - 389	18746	Pro-20 to His-25, Arg-55 to Cys-61.	H0521: 1	
HDPGN13	416046	8995	1 - 147	18747	Gly-27 to Asn-32, Gly-42 to Pro-49.	H0521: 1	
HDPGN11	966923	8996	300 - 166	18748		L0766: 1 and H0521: 1.	
HDPGJ49	722903	8997	119 - 310	18749		H0521: 1 and L0748: 1.	
HDPGI75	766618	8998	156 - 302	18750	Arg-18 to Gln-24.	H0521: 1	
HDPGI74	765524	8999	87 - 209	18751	Pro-18 to Lys-35.	H0521: 1	
HDPGH73	764397	9000	2 - 118	18752	Glu-6 to Gly-11, Lys-18 to Ile-32.	H0521: 1	
HDPGG01	916389	9001	282 - 115	18753		H0521: 1 and L0604: 1.	
HDPGD28	879489	9002	223 - 441	18754	Phe-19 to Asp-28.	H0521: 1, L0748: 1 and L0749: 1.	
HDPFZ70	709684	9003	482 - 775	18755	Leu-40 to Gly-93.	AR054: 199, AR051: 196, AR050: 193, AR089: 22, AR061: 4 H0521: 1	
	872273	9736	289 - 522	19488			
HDPFW02	919306	9004	211 - 2	18756	Ala-60 to Gly-70.	H0521: 1	
HDPFS71	486744	9005	481 - 329	18757		H0521: 1	
HDPFS59	486737	9006	65 - 196	18758	Lys-38 to His-43.	H0521: 1	
HDPFP96	796360	9007	116 - 226	18759	Gly-1 to Lys-6, Phe-9 to Thr-17, Lys-27 to Thr-33.	H0521: 1 and L0581: 1.	
HDPFP71	760327	9008	374 - 655	18760	Thr-10 to Cys-17, His-39 to Gly-46, Arg-58 to Ser-71.	L0747: 2 and H0521: 1.	
HDPFP14	486765	9009	127 - 321	18761		H0521: 1	
	495698	9737	446 - 279	19489	Ser-18 to Thr-25, Pro-35 to Ser-40.		
HDPFN23	486738	9010	315 - 455	18762		H0521: 1	
	495721	9738	346 - 149	19490	Ala-1 to Glu-16, Pro-37 to Ala-45,		

HDPFM28	486766	9011	1 - 243	18763	Pro-47 to Lys-54. Ser-5 to Ser-14, Ser-34 to Gly-45, Gly-51 to Cys-56.	H0521: 1		
HDPFL52	495724	9739	477 - 223	19491	His-17 to Cys-22.	H0521: 1		
	486739	9012	43 - 198	18764	Lys-1 to Lys-7,			
	495697	9740	195 - 1	19492	Pro-45 to Arg-54, Asp-60 to Pro-65.			
HDPFI58	783957	9013	229 - 74	18765	Ile-87 to Ile-94.	H0521: 1 and L0750: 1.		
HDPFD10	964521	9014	270 - 632	18766		H0521: 1, L0777: 1 and L0759: 1.		
HDPFB03	936331	9015	326 - 607	18767	Tyr-12 to Gly-17, Tyr-75 to Asp-81.	L0776: 1, H0521: 1 and L0748: 1.		
HDPDH08	959303	9016	155 - 352	18768		H0521: 1 and L0588: 1.		
HDPDD12	970592	9017	379 - 164	18769	Thr-30 to Asn-35.	L0770: 11, L0775: 1, L0787: 1, L0666: 1 and H0521: 1.		
HDPDC90	590161	9018	101 - 241	18770	Val-3 to Tyr-17.	H0521: 1		
	950991	9741	564 - 785	19493				
HDP CY47	775412	9019	2 - 358	18771		H0521: 1 and L0750: 1.		
HDP CP89	786075	9020	2 - 175	18772	Ala-1 to Arg-6, Thr-30 to Ser-43.	H0521: 1		
HDP CP64	746527	9021	138 - 332	18773		H0521: 1		
HDP CP48	721620	9022	317 - 418	18774		H0521: 1		
HDP CP46	719014	9023	210 - 356	18775		H0521: 1		
HDP CP43	715227	9024	198 - 446	18776	Pro-1 to Asn-6, Asp-19 to Lys-35.	H0521: 1		
HDP CP16	416032	9025	263 - 421	18777		H0521: 1		
HDP CO12	852847	9026	80 - 310	18778		H0521: 1		
HDP CN88	416035	9027	219 - 365	18779	Lys-28 to Thr-33.	H0521: 1		
HDP CN73	764400	9028	1 - 138	18780		H0521: 1		
HDP CN33	416028	9029	169 - 351	18781		H0521: 1		
HDP CM66	852849	9030	50 - 472	18782	Thr-6 to Gly-11, Pro-29 to Met-40.	H0521: 1	16q12-q13	114835, 132700, 172490, 600968

HDP62	454740	9031	137 - 382	18783	His-1 to Asn-12, Pro-14 to Pro-27, Asn-33 to Ser-39, Pro-41 to Asn-46, Pro-74 to Pro-82.	AR061: 159, AR089: 121 H0521: 1	1p34.1-p32	120550, 120570, 120575, 120950, 120960, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 187040, 255800, 600101, 600650, 600650, 600722, 600722
HDP145	974424	9032	221 - 382	18784		H0521: 1		
HDPCH85	973314	9033	7 - 222	18785		H0521: 1		
HDP633	495711	9034	509 - 330	18786	Gly-3 to Asn-15.	H0521: 1		
	852850	9742	8 - 190	19494	Gln-29 to Tyr-45.			
	852872	9743	122 - 304	19495				
HDP667	878776	9035	3 - 299	18787	Glu-11 to Ala-20, Gly-74 to Pro-80.	H0521: 1 and L0747: 1.		
HDPBQ75	466645	9036	1 - 429	18788	Glu-22 to Asp-29, Asp-53 to Ser-63, Met-95 to Arg-104, Thr-115 to Asn-126.	H0521: 1 and L0600: 1.		
HDPBP64	746537	9037	3 - 218	18789	Ile-2 to Gln-7, Val-37 to Lys-44, Lys-38 to Ser-64.	H0521: 1 and L0439: 1.		
HDPB131	852885	9038	400 - 546	18790		H0521: 1 and L0751: 1.		
HDPBF15	852880	9039	189 - 28	18791	Thr-18 to Ile-37.	H0521: 1 and L0751: 1.		
HDPBE85	783544	9040	3 - 224	18792	Cys-27 to Asn-41.	L0748: 4 and H0521: 1.		
HDPAX21	670893	9041	278 - 418	18793		H0521: 1 and L0599: 1.		
HDP6V46	719027	9042	103 - 291	18794	Glu-22 to Thr-27, Pro-38 to Thr-43, Lys-52 to Gln-57.	H0521: 1 and L0596: 1.		
HDPAP04	615193	9043	128 - 370	18795		H0521: 1 and L0748: 1.		
HDP6068	972332	9044	1054 - 752	18796	Lys-28 to Ser-38, Arg-51 to Gly-64.	AR061: 30, AR089: 13 H0521: 1		
HDP6064	746550	9045	305 - 457	18797		H0521: 1 and L0439: 1.	9q13-q21	190100, 200150, 229300, 229300,

HDPAN94	901123	9046	242 - 463	18798				AR050: 3, AR051: 2, AR054: 0 H0521: 1		600429, 600884, 600974, 600998, 602014
HDPK09	494170	9047	143 - 48	18799			Arg-3 to Gly-16.	H0521: 1		
	852903	9744	321 - 464	19496						
HDPJ64	881654	9048	46 - 324	18800			Cys-38 to Pro-44, Glu-50 to Ser-56.	H0521: 1		
HDPAH17	663779	9049	122 - 331	18801			His-57 to Glu-63.	L0748: 2, L0747: 2, H0521: 8q 1 and L0749: 1.		
HDPAF40	856391	9050	442 - 567	18802				L0599: 2 and H0521: 1.		
HDPAC90	787296	9051	1 - 216	18803				L0605: 2, H0521: 1, L0748: 1, L0745: 1 and L0747: 1.		
HDPAC78	773570	9052	109 - 213	18804				H0521: 1 and L0748: 1.		
HDPAB34	581900	9053	358 - 2	18805			Cys-72 to Thr-79, Thr-105 to Gly-119.	H0521: 1		
	959495	9745	2 - 169	19497						
	959496	9746	1 - 39	19498						
HDPAA80	775417	9054	89 - 310	18806				H0521: 1 and L0748: 1.		
HDPAA38	546575	9055	184 - 2	18807			Lys-51 to Gly-61.	H0521: 1		
HDLBE11	966230	9056	109 - 2	18808			Thr-1 to Gly-6, Gln-13 to Phe-20.	H0485: 1 and L0751: 1.		
HDLAX74	765091	9057	277 - 516	18809			Gly-1 to Gln-8, Leu-17 to Cys-26, Pro-38 to Gln-47, Ser-59 to Gly-66.	L0753: 3 and H0485: 1.		
HDLAX52	726241	9058	615 - 794	18810				H0485: 1 and L0731: 1.	10q	
HDLAW58	735559	9059	111 - 395	18811			Asn-78 to Tyr-83.	H0485: 1 and L0759: 1.		
HDLAV11	852919	9060	122 - 256	18812				H0485: 1 and L0766: 1.		
HDLAG57	565105	9061	211 - 441	18813			Arg-9 to Gly-20.	H0485: 1		
HDLAC67	751699	9062	1 - 141	18814			Asn-14 to Ile-19.	H0485: 1		
HDLACS1	799888	9063	261 - 428	18815			Leu-20 to Asn-25, Leu-41 to Asn-51.	H0485: 1		
HDLAC30	799891	9064	3 - 209	18816			Asp-1 to Arg-18.	H0485: 1		



HDLA58	736081	9065	297 - 491	18817			H0485: 1		
HDCBF12	969401	9066	1 - 189	18818	Ser-16 to Ser-21.		H0637: 1 and L0658: 1.		
HDCBD07	951948	9067	1 - 180	18819	Phe-6 to Thr-11.		H0637: 1 and L0666: 1.		
HDCAN06	933818	9068	3 - 176	18820			H0637: 1 and L0601: 1.		
HDCAG61	852968	9069	80 - 298	18821			H0637: 1 and L0518: 1.		
HDBAK09	625387	9070	316 - 546	18822	Asn-6 to Arg-11.		H0578: 1 and L0755: 1.		
HDBAA11	966723	9071	283 - 459	18823	Leu-3 to Gln-9.		L0717: 1 and H0578: 1.		
HCWWH01	915420	9072	78 - 194	18824			H0589: 1 and L0753: 1.		
HCWVA80	974488	9073	1 - 135	18825	Glu-1 to Gln-22.		H0589: 1		
HCWUS57	974462	9074	104 - 433	18826	Leu-28 to Ser-33, Thr-57 to Lys-63, Lys-75 to Trp-84, Thr-94 to Gly-103.		H0589: 1		
HCWUS50	974467	9075	328 - 516	18827	His-26 to Gln-39, Leu-53 to Tyr-61.		H0589: 1		
HCWUQ81	853002	9076	285 - 518	18828	Val-10 to Gly-15.		H0589: 1 and L0748: 1.		
HCWUQ10	964080	9077	1 - 207	18829	Ser-31 to Gly-45, Glu-60 to Asn-65.		H0589: 1, L0775: 1 and L0758: 1.		
HCWUP62	743064	9078	218 - 430	18830			H0589: 1, L0743: 1 and L0744: 1.		
HCWUM01	974466	9079	1 - 243	18831	His-71 to Pro-77.		H0589: 1		
HCWUL35	706530	9080	69 - 191	18832	Ala-7 to His-12.		L0777: 2 and H0589: 1.		
HCWUI49	722674	9081	152 - 367	18833	Glu-16 to Arg-21, Pro-35 to Ala-41.		H0589: 1 and L0596: 1.		
HCWTP17	662486	9082	16 - 225	18834	Ser-23 to Lys-29, Ser-55 to Asp-68.		H0589: 1 and L0740: 1.		
HCWTL02	919252	9083	99 - 308	18835	Leu-2 to Ser-9.		H0589: 1 and L0759: 1.		
HCWSC38	706523	9084	194 - 547	18836	Ala-6 to Leu-11, Leu-70 to Ser-83.		H0305: 1 and L0758: 1.		
HCWLA43	927571	9085	130 - 324	18837			H0305: 1 and L0748: 1.		
HCWKT71	888167	9086	2 - 322	18838	Thr-7 to Ser-35.		AR050: 1, AR051: 1, AR054: 1 H0305: 1		
HCWKS70	757172	9087	44 - 142	18839	Thr-14 to Gln-25.		H0305: 1		
HCWKS35	706518	9088	147 - 332	18840	Phe-1 to Leu-6.		H0305: 1		

HCWKR86	784705	9089	263 - 376	18841	Gln-32 to Gly-38.	H0305: 1		
HCWKR85	783555	9090	138 - 284	18842	Arg-6 to Leu-13, Cys-20 to His-27, Lys-41 to Pro-47.	H0305: 1		
HCWKR62	742602	9091	121 - 255	18843	Leu-21 to Gly-26, Ser-35 to Cys-42.	H0305: 1		
HCWKR51	725027	9092	79 - 225	18844		H0305: 1		
HCWKR14	658421	9093	128 - 334	18845	Ser-8 to Pro-19.	H0305: 1		
HCWKQ09	625346	9094	57 - 314	18846	Gln-39 to Trp-47.	H0305: 1, L0748: 1 and L0749: 1.		
HCWKI72	760628	9095	62 - 169	18847		H0305: 1 and L0741: 1.		
HCWKD85	783545	9096	38 - 202	18848	Arg-26 to Ile-36.	H0305: 1 and L0757: 1.		
HCWKC61	741803	9097	2 - 241	18849	Lys-1 to Ser-16, Arg-24 to Ser-32, Glu-49 to Asp-58, Ala-67 to Thr-74.	L0748: 2, L0749: 2 and H0305: 1.		
HCWHN53	728248	9098	148 - 345	18850		H0305: 1 and L0731: 1.		
HCWHF76	838528	9099	448 - 693	18851	Lys-1 to Trp-10, Cys-34 to His-41, Thr-48 to Glu-62.	AR051: 31, AR050: 26, AR054: 20 H0305: 1		
HCWGY56	732688	9100	99 - 230	18852		H0305: 1 and L0748: 1.		
HCWGU65	747198	9101	535 - 116	18853		H0305: 1		
	747199	9747	86 - 301	19499	Ser-11 to Cys-20, Leu-27 to Val-36.			
HCWGR02	920121	9102	1 - 291	18854	Ile-1 to Asp-7.	H0305: 1, L0803: 1 and L0599: 1.		
HCWGE86	974476	9103	348 - 530	18855		H0305: 1		
HCWGE85	783528	9104	238 - 360	18856	Pro-34 to Gln-39.	H0305: 1 and L0749: 1.		
HCWGA64	746153	9105	30 - 152	18857		H0305: 1		
HCWVF07	953582	9106	32 - 430	18858	Asn-14 to Glu-22, Arg-30 to Ala-37, Ser-45 to Gly-74.	H0305: 1, L0779: 1 and L0758: 1.		
HCWUF40	710419	9107	49 - 291	18859		H0305: 1 and L0777: 1.		
HCWFM44	716726	9108	108 - 584	18860	Arg-2 to His-13.	L0754: 2, H0305: 1 and L0748: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391,

HCWFK37	800389	9109	128 - 304	18861	Pro-19 to Gln-25, Lys-45 to Leu-52.	AR050: 18, AR054: 12, AR051: 8 H0305: 1	160900, 164731, 173850, 207750, 248600, 258501
HCWFI71	489879	9110	2 - 328	18862	Thr-78 to Ala-86, Pro-98 to Gln-109.	H0305: 1	
HCWFE35	722467	9111	2 - 370	18863	Arg-1 to Arg-6.	L0740: 2, H0305: 1, L0157: 1 and L0755: 1.	
HCWFA63	578898	9112	1 - 237	18864	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA51	584725	9113	1 - 234	18865	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA35	908820	9114	50 - 364	18866	Lys-19 to Thr-26.	AR089: 13, AR061: 6 H0305: 1	
HCWFA27	578899	9115	86 - 349	18867	Gln-2 to Ser-7, Leu-20 to Lys-26.	H0305: 1	
HCWFA03	921938	9116	244 - 381	18868		H0305: 1	
HCWEW92	573389	9117	1 - 129	18869	Leu-20 to Thr-34.	H0305: 1	
HCWEW68	849928	9118	125 - 268	18870	Ala-29 to Glu-39.	H0305: 1	
HCWES28	685585	9119	2 - 127	18871		H0305: 1	
HCWER13	586984	9120	29 - 187	18872		H0305: 1	
HCWEQ61	741989	9121	2 - 301	18873	Glu-26 to Gln-31, Lys-41 to Glu-50.	H0305: 1, L0748: 1 and L0749: 1.	
HCWEH95	795046	9122	151 - 276	18874	Arg-1 to Trp-6, Cys-13 to Arg-19.	H0305: 1 and L0748: 1.	
HCWDO74	576471	9123	3 - 206	18875		H0305: 1	
HCWDO26	576470	9124	40 - 147	18876		H0305: 1	
HCWDJ81	514607	9125	278 - 144	18877		H0305: 1	
	588502	9748	11 - 343	19500			
	623460	9749	99 - 326	19501	Pro-35 to Thr-40, Trp-51 to Ser-58.		
HCWGR40	711507	9126	176 - 316	18878	Phe-3 to Lys-8, Ser-15 to Val-22.	L0766: 2, H0305: 1 and L0745: 1.	
HCWCN11	849959	9127	717 - 896	18879		L0766: 2, L0748: 2 and	

HCWCM08	849958	9128	122 - 340	18880			H0305: 1.		
HCWCL46	719244	9129	240 - 410	18881		Gly-11 to Lys-16.	H0305: 1 H0305: 1, L0766: 1 and L0777: 1.		
HCWCJ16	411336	9130	175 - 465	18882		Thr-72 to Tyr-79.	H0305: 1, L0774: 1 and L0465: 1.		
	514257	9750	549 - 355	19502		Ser-1 to Gly-10.	H0305: 1		
HCWC185	840121	9131	210 - 389	18883					
HCWCH85	753191	9132	102 - 257	18884		Ser-1 to Arg-9, Leu-13 to Gly-25, Pro-31 to Ile-36.	H0305: 1 and L0766: 1.		
HCWCH11	967666	9133	172 - 291	18885		Tyr-3 to Ser-10.	H0305: 1, L0109: 1, L0749: 1, L0779: 1 and L0599: 1.		
HCWBM07	954100	9134	108 - 467	18886		Tyr-17 to Ala-33, Pro-58 to Asp-63, Arg-89 to Asp-94, Ala-97 to Pro-104.	L0748: 11 and H0305: 1.		
HCWAN45	728385	9135	236 - 60	18887		Arg-42 to Asp-59.	H0305: 1		
	889047	9751	11 - 223	19503					
HCWA153	586997	9136	67 - 300	18888		Val-4 to Lys-13.	H0305: 1		
HCWAB85	783392	9137	180 - 311	18889		Pro-1 to Val-7.	H0305: 1		
HCWAB72	766288	9138	56 - 211	18890			H0305: 1		
HCWAB49	529659	9139	2 - 64	18891		Thr-3 to His-12.	H0305: 1		
HCWAB37	575491	9140	56 - 190	18892		Ala-18 to Trp-31, Thr-33 to Ser-38.	H0305: 1		
HCWAB36	529660	9141	98 - 244	18893		Tyr-1 to Asp-17, Trp-37 to Cys-44.	H0305: 1		
HCWAB35	416968	9142	1 - 201	18894		Ser-12 to Ser-17.	H0305: 1		
HCWAB25	575270	9143	21 - 137	18895		Arg-6 to Leu-13.	H0305: 1		
HCWAB23	529664	9144	2 - 241	18896		His-45 to Gln-53, Pro-56 to Thr-74.	H0305: 1 and L0789: 1.		
HCVAC86	785784	9145	27 - 227	18897		Leu-7 to Leu-13.	H0300: 1		
HCVAC80	529688	9146	143 - 316	18898			H0300: 1		
HCVACT73	529687	9147	2 - 226	18899		Pro-53 to Trp-62.	H0300: 1		
HCVACT72	529693	9148	39 - 260	18900			H0300: 1		

HCVAC70	507284	9149	115 - 354	18901	Gly-9 to Ser-17, Thr-51 to Thr-57.	H0300: 1 and L0604: 1.		
HCVAC58	575510	9150	2 - 202	18902	Ser-16 to Ala-22, Lys-61 to Gln-67.	H0300: 1		
HCVAC47	861969	9151	168 - 326	18903	Ala-1 to Trp-8,	H0300: 1	12	
HCVAC45	529691	9152	2 - 289	18904	Glu-22 to Leu-28, Leu-32 to Pro-55, Arg-64 to Asp-69, Glu-73 to Leu-79.	H0300: 1	17p13	138190, 254210, 271900, 600179, 600977, 601202, 601777
HCVAC38	529692	9153	209 - 319	18905		H0300: 1		
HCVAC33	529694	9154	191 - 331	18906		H0300: 1		
HCVAC26	529698	9155	69 - 290	18907	Pro-15 to Arg-20.	H0300: 1		
HCVAC21	529695	9156	55 - 222	18908	Met-1 to Ser-6.	H0300: 1		
HCVAC19	879694	9157	3 - 197	18909		H0300: 1		
HCUIO06	934889	9158	229 - 372	18910	Ser-24 to Asp-37.	H0402: 1		
HCUIM28	849998	9159	2 - 409	18911	Pro-16 to Thr-29, Pro-45 to Ala-53, Pro-72 to Trp-77, Pro-101 to Ser-107.	H0402: 1 and L0759: 1.		
HCUIK74	765645	9160	50 - 292	18912		L0750: 2 and H0402: 1.		
HCUHY13	657297	9161	120 - 386	18913		H0402: 1 and L0361: 1.		
HCUHY10	964727	9162	60 - 224	18914		H0402: 1 and L0748: 1.		
HCUHU61	850008	9163	183 - 395	18915	Glu-8 to Arg-15.	H0402: 1 and L0717: 1.		
HCUHU54	730739	9164	200 - 367	18916		H0402: 1 and L0754: 1.		
HCUHT92	792756	9165	3 - 206	18917	Asn-20 to Cys-25, Asn-30 to Ala-38.	H0402: 1 and L0748: 1.		
HCUHT74	765641	9166	113 - 256	18918	Asp-1 to Glu-8.	H0402: 1		
HCUHT37	575794	9167	87 - 200	18919	Asn-8 to Thr-31, Leu-33 to Trp-38.	H0402: 1		
HCUHT26	681874	9168	2 - 118	18920		H0402: 1		
HCUHT13	657295	9169	17 - 217	18921	Asn-11 to Lys-16.	H0402: 1		
HCUHT03	924494	9170	130 - 282	18922	Glu-37 to Gly-44.	L0748: 2 and H0402: 1.		
HCUHS21	670988	9171	247 - 423	18923		H0402: 1 and L0748: 1.		
HCUHO27	690027	9172	28 - 177	18924		L0731: 3, L0768: 2, H0402:		

HCUHO13	879921	9173	515 - 276	18925			1, L0659: 1 and L0759: 1.		
HCUHK11	967142	9174	180 - 410	18926			H0402: 1		
HCUHH95	941943	9175	1411 - 1061	18927			H0402: 1, L0717: 1 and L0612: 1.		
HCUHH04	927500	9176	3 - 566	18928			H0402: 1		
HCUHG67	751673	9177	563 - 760	18929			L0777: 2 and H0402: 1.		
HCUGT86	784694	9178	133 - 312	18930			H0402: 1 and L0468: 1.		
HCUGS67	751669	9179	328 - 450	18931			H0402: 1 and L0596: 1.		
HCUGO07	953412	9180	122 - 262	18932			H0402: 1 and L0518: 1.		
HCUGN19	716989	9181	35 - 382	18933			AR089: 7, AR061: 2 L0744: 3, L0766: 2, H0402: 1 and L0754: 1.		
HCUGM93	792329	9182	5 - 262	18934			H0402: 1 and L0748: 1.		
HCUGM64	745853	9183	193 - 330	18935			H0402: 1 and L0747: 1.		
HCUGL20	668913	9184	112 - 303	18936			H0402: 1 and L0748: 1.		
HCUGL01	916550	9185	1 - 162	18937			L0785: 1 and H0402: 1.		
HCUGK86	785517	9186	164 - 301	18938			H0402: 1		
HCUGK85	783521	9187	3 - 329	18939			H0402: 1		
HCUGK78	773601	9188	69 - 227	18940			H0402: 1		
HCUGK64	746604	9189	3 - 137	18941			H0402: 1		
HCUGK54	730709	9190	3 - 116	18942			H0402: 1		
HCUGK51	725013	9191	2 - 178	18943			H0402: 1		
HCUGK38	706479	9192	19 - 174	18944			H0402: 1		
HCUGK25	678130	9193	1 - 165	18945			H0402: 1		
HCUGK18	666454	9194	110 - 259	18946			H0402: 1		
HCUGK17	424102	9195	34 - 204	18947			H0402: 1		
HCUGK14	657539	9196	2 - 265	18948			H0402: 1 and L0662: 1.		
HCUGK05	932078	9197	3 - 125	18949			H0402: 1		
HCUGI64	746608	9198	2 - 283	18950			H0402: 1		
HCUGH79	775206	9199	178 - 279	18951			H0402: 1		

HCUGH64	746600	9200	35 - 133	18952	Leu-19 to Lys-24. Met-1 to Trp-7, Arg-20 to Gln-33.	H0402: 1		
HCUGH52	726052	9201	67 - 183	18953		H0402: 1		
HCUGH44	716624	9202	1 - 60	18954		H0402: 1		
HCUGH42	713782	9203	89 - 274	18955	Lys-1 to Lys-6.	H0402: 1		
HCUGD30	850041	9204	178 - 432	18956	Glu-7 to Gln-14.	L0777: 2, L0599: 2, H0402: 1 and L0369: 1.		
HCUGC25	464029	9205	27 - 287	18957	Gly-67 to Glu-73, Val-82 to Tyr-87.	H0402: 1 and L0740: 1.		
HCUGB93	850043	9206	2 - 187	18958	Tyr-40 to Gln-45.	H0402: 1		
HCUGB58	736092	9207	30 - 113	18959	Lys-19 to Pro-28.	H0402: 1		
HCUGB37	706468	9208	56 - 208	18960	Leu-26 to Arg-31, Gly-38 to Lys-51.	H0402: 1		
HCUGB22	575851	9209	3 - 134	18961		H0402: 1		
HCUGB20	669742	9210	113 - 226	18962		H0402: 1		
HCUGB14	854035	9211	185 - 373	18963	Glu-27 to Ser-39.	H0402: 1		
HCUFY79	494008	9212	511 - 245	18964		H0402: 1		
	882298	9752	287 - 571	19504	Lys-12 to Glu-25, Gly-64 to Asp-79.			
HCUFW11	850054	9213	222 - 401	18965	Gln-1 to Trp-6, Met-21 to Ser-30, Pro-54 to Ala-60.	H0402: 1 and L0748: 1.		
HCUFW09	625658	9214	1 - 186	18966	Lys-1 to Pro-6, Ser-8 to Thr-15.	H0402: 1 and L0599: 1.		
HCUFT37	706467	9215	239 - 370	18967		H0402: 1, L0021: 1, L0065: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0791: 1, L0665: 1 and L0747: 1.		
HCUFQ08	959567	9216	1 - 342	18968	Leu-21 to Asp-27.	H0402: 1 and L0369: 1.		
HCUFP11	967155	9217	2 - 220	18969	Lys-1 to His-6, Pro-20 to Ala-25, Pro-35 to Val-40, Leu-53 to Ser-61.	H0402: 1 and L0749: 1.		
HCUFO96	796434	9218	2 - 136	18970		H0402: 1		
HCUFO93	792376	9219	64 - 210	18971	Ser-1 to His-12,	H0402: 1		

HCUF068	753083	9220	3 - 122	18972	Pro-15 to Ser-29.			
HCUF043	715337	9221	61 - 225	18973	Pro-6 to Thr-18.		H0402: 1	
HCUF036	575850	9222	79 - 366	18974	Gly-15 to Cys-33, Glu-40 to Lys-52.		H0402: 1	
HCUF024	677273	9223	70 - 327	18975	Thr-1 to Gly-9, Pro-68 to Glu-79, Pro-91 to Arg-96.		H0402: 1	
HCUF011	967156	9224	2 - 160	18976			H0402: 1	109690, 109690, 131400, 154500, 159000, 180071, 181460, 222600, 222600, 222600, 272750, 600807, 601596, 602089
HCUFN78	773620	9225	1 - 168	18977	Glu-33 to Thr-44.		H0402: 1 and L0682: 1.	
HCUFM35	706461	9226	253 - 414	18978			H0402: 1 and L0754: 1.	
HCUF040	711242	9227	96 - 326	18979			H0402: 1, L0766: 1, L0647: 1, L0749: 1 and L0605: 1.	
HCUFK35	706460	9228	161 - 457	18980	Ala-1 to Ser-8.		L0604: 2 and H0402: 1.	
HCUFK09	961145	9229	1 - 333	18981	Ser-18 to Ala-24, Gly-32 to Asp-41, Arg-52 to Ile-57.		L0605: 2, H0402: 1, L0777: 1 and L0604: 1.	
HCUFJ08	850074	9230	51 - 215	18982			H0402: 1 and L0365: 1.	
HCUF150	974472	9231	90 - 425	18983	Leu-1 to Gly-7.		H0402: 1 and L0601: 1.	
HCUFF74	765662	9232	11 - 112	18984			H0402: 1	
HCUF55	731843	9233	48 - 152	18985	His-5 to Ser-10.		H0402: 1 and L0596: 1.	
HCUF54	730745	9234	145 - 312	18986	Pro-2 to Tyr-7, Pro-30 to Cys-36.		H0402: 1 and L0750: 1.	
HCUF70	757280	9235	346 - 534	18987	Pro-6 to Ser-12, Asp-19 to Ile-25.		H0402: 1 and L0751: 1.	
HCUES01	916805	9236	163 - 384	18988			L0748: 2 and H0402: 1.	
HCUEQ12	922556	9237	368 - 138	18989			L0369: 2 and H0402: 1.	
HCUEP32	586999	9238	127 - 273	18990			H0402: 1 and L0731: 1.	165215, 222900, 600049
					Leu-7 to Gly-17, Leu-23 to Cys-28,		H0402: 1	



HCUEO74	576576	9239	2 - 223	18991	Glu-35 to Lys-46. Val-24 to Gly-35, Pro-46 to Cys-51, Thr-57 to Lys-74.	H0402: 1		
HCUEO20	669764	9240	267 - 464	18992	Lys-6 to Leu-16.	H0402: 1 and L0600: 1.		
HCUEM93	792424	9241	52 - 240	18993	Gly-1 to Cys-6.	L0748: 2 and H0402: 1.		
HCUEM15	660450	9242	236 - 370	18994	Glu-32 to Gly-38.	H0402: 1 and L0362: 1.		
HCUEL24	677300	9243	171 - 341	18995		L0439: 2 and H0402: 1.		
HCUEL07	953587	9244	211 - 462	18996	Glu-12 to Asp-21, Pro-33 to Ser-53, Leu-60 to Thr-69.	L0599: 2, H0402: 1 and L0769: 1.		
HCUEG27	683541	9245	314 - 544	18997		H0402: 1 and L0748: 1.		
HCUEF38	706450	9246	1 - 171	18998	Leu-16 to Asp-21.	H0402: 1		
HCUED05	932123	9247	3 - 194	18999	Ser-15 to Cys-31.	H0402: 1		
HCUDY74	839955	9248	133 - 321	19000	Ala-42 to Glu-49.	H0402: 1 and L0520: 1.		
HCUDX89	974483	9249	3 - 227	19001	Asp-11 to Arg-17, Arg-32 to Pro-44, Leu-53 to His-58, Gln-68 to Cys-75.	H0402: 1		
HCUDU18	850099	9250	1 - 261	19002	Arg-33 to Thr-39.	H0402: 1 and L0589: 1.		
HCUDQ81	902510	9251	144 - 329	19003	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Lys-62.	H0402: 1		
	928439	9753	440 - 3	19505	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Ser-64, Asn-88 to Asn-97, Gln-104 to Glu-109.			
HCUDQ45	881366	9252	295 - 591	19004	Pro-43 to Trp-48, Ser-81 to Ser-90.	H0402: 1		
HCUDN89	811185	9253	2 - 328	19005		H0402: 1 and L0756: 1.		
HCUDN82	779978	9254	185 - 310	19006		H0402: 1 and L0599: 1.		
HCUDN71	862116	9255	2 - 394	19007		H0402: 1 and L0766: 1.		
HCUDK08	959679	9256	188 - 316	19008		H0402: 1 and L0803: 1.		
HCUDI17	664109	9257	57 - 227	19009	Leu-18 to Ser-25.	H0402: 1		
HCUDG26	681985	9258	226 - 369	19010		H0402: 1 and L0591: 1.		

HCUD07	953588	9259	2 - 235	19011			H0402: 1	
HCUC58	850117	9260	1 - 165	19012			H0306: 1 and L0750: 1.	
HCUC14	659221	9261	189 - 353	19013		Trp-1 to Ser-9.	H0306: 1, L0748: 1 and L0749: 1.	
HCUC123	676276	9262	119 - 208	19014			H0306: 1 and L0745: 1.	
HCUC29	608615	9263	2 - 343	19015		Ser-25 to Ser-30.	AR051: 9, AR050: 3, AR054: 2	
	637567	9754	2 - 337	19506		Ser-23 to Ser-28, Cys-79 to His-84.	H0306: 1	
HCUCG40	800153	9264	1 - 153	19016			AR054: 24, AR051: 19, AR050: 12	
							H0306: 1	
HCUCG07	953823	9265	73 - 300	19017		Lys-19 to Lys-25.	H0306: 1 and L0387: 1.	
HCUCD83	781346	9266	115 - 381	19018			H0306: 1 and L0755: 1.	
HCUCD05	932333	9267	116 - 376	19019			L0588: 2, H0306: 1 and L0747: 1.	
HCUBX45	850122	9268	125 - 400	19020		Ser-1 to Gly-7.	H0306: 1, L0800: 1, L0809: 1 and L0779: 1.	
HCUBV91	790368	9269	47 - 223	19021			H0306: 1 and L0596: 1.	
HCUBT35	850126	9270	121 - 291	19022		Glu-50 to Ala-57.	H0306: 1 and L0748: 1.	
HCUBS07	953861	9271	85 - 243	19023		Asp-13 to Trp-18, Leu-39 to Gly-46.	H0306: 1 and L0749: 1.	
HCUBP94	574198	9272	3 - 143	19024		Cys-11 to Gln-20.	H0306: 1	
HCUBP82	526773	9273	1 - 69	19025			H0306: 1	
HCUBP48	577289	9274	1 - 222	19026		Asn-12 to His-19, Lys-61 to Thr-72.	H0306: 1 and L0748: 1.	
HCUBP34	576462	9275	177 - 383	19027			H0306: 1	
HCUBP10	961259	9276	3 - 203	19028		Lys-1 to Thr-7, Thr-17 to Gln-25, Leu-29 to Arg-44.	H0306: 1	
HCUBO67	526489	9277	128 - 232	19029		Pro-15 to Cys-28.	H0306: 1	
HCUBM73	577294	9278	1 - 201	19030		Pro-1 to Cys-16.	H0306: 1 and L0748: 1.	
HCUBM49	722190	9279	163 - 438	19031		Gly-84 to Thr-90.	L0749: 2, H0306: 1 and L0748: 1.	
HCUBL10	968223	9280	222 - 410	19032			H0306: 1 and L0761: 1.	

HCUBJ45	723364	9281	194 - 367	19033	Lys-12 to Gly-21.	L0748: 2 and H0306: 1.	
HCUBG69	757752	9282	2 - 238	19034		H0306: 1	
HCUBG43	576468	9283	202 - 381	19035		H0306: 1	
HCUBE89	785987	9284	2 - 169	19036	Glu-1 to Lys-13, Gly-34 to His-39.	L0777: 2 and H0306: 1.	
HCUBE49	723175	9285	47 - 193	19037	Ser-3 to Gly-10, Leu-13 to His-20.	H0306: 1 and L0599: 1.	
HCUBE22	409828	9286	338 - 499	19038		H0306: 1	
HCUBB68	752247	9287	174 - 380	19039		H0306: 1 and L0748: 1.	
HCUBA93	792515	9288	297 - 440	19040		H0306: 1 and L0591: 1.	
HCUAZ01	917266	9289	176 - 298	19041	Pro-19 to Arg-34.	H0306: 1 and L0634: 1.	
HCUAW03	924897	9290	193 - 426	19042	Thr-20 to Asp-25, His-42 to Ser-58, Asn-68 to Leu-73.	H0306: 1 and L0776: 1.	
HCUAP34	706426	9291	8 - 97	19043		H0306: 1 and L0748: 1.	
HCUAN95	796010	9292	2 - 100	19044		H0306: 1	
HCUAN89	574275	9293	49 - 141	19045	Ser-21 to Lys-31.	H0306: 1	
HCUAN53	728364	9294	2 - 133	19046		H0306: 1	
HCUAM65	887470	9295	225 - 464	19047		AR050: 38, AR054: 30, AR051: 29 H0306: 1	
HCUAL33	702677	9296	8 - 181	19048		L0749: 2, H0306: 1 and L0748: 1.	
HCUAG10	968229	9297	1 - 168	19049		H0306: 1 and L0601: 1.	
HCUAF80	862171	9298	3 - 140	19050	Ile-26 to Lys-31, Pro-39 to Pro-44.	L0772: 2 and H0306: 1.	
HCUAF01	850153	9299	53 - 313	19051	Pro-10 to Ser-16.	H0306: 1	
HCUAA92	792947	9300	429 - 593	19052		H0306: 1, L0766: 1, L0745: 1 and L0752: 1.	
HCFOF90	862572	9301	438 - 638	19053	Arg-19 to Arg-25.	L0385: 1 and H0423: 1.	
HCFOO25	678200	9302	115 - 246	19054		L0777: 1 and H0423: 1.	
HCFOO01	916687	9303	230 - 412	19055		L0717: 1 and H0423: 1.	
HCFOF45	850372	9304	145 - 474	19056	Ser-37 to Ser-42.	AR050: 16, AR054: 7, AR051: 4 H0423: 1	

HCFOF34	955905	9305	79 - 249	19057	Ile-1 to Leu-6.	L0375: 1, L0542: 1, L0526: 1, L0749: 1, L0759: 1 and H0423: 1.		
HCFNQ62	745755	9306	2 - 151	19058		L0598: 2, UNKWN: 1, L0748: 1, L0749: 1 and H0423: 1.		
HCFNP09	961149	9307	145 - 393	19059	Ala-15 to Leu-27, Ser-42 to Glu-47.	L0804: 2, L0731: 2, L0747: 1 and H0423: 1.		
HCFNI34	485822	9308	2 - 325	19060		H0423: 1		
	494112	9755	314 - 135	19507	Arg-25 to Gly-36, Pro-55 to Tyr-60.			
HCFNG63	745148	9309	45 - 245	19061	Thr-54 to Pro-67.	H0423: 1		
HCFNG10	848225	9310	140 - 1036	19062	Pro-4 to Phe-9, Glu-17 to Pro-24, Lys-51 to Ala-104, Lys-114 to Lys-140, Arg-153 to Gln-188, Glu-203 to Gly-234, Gln-247 to Thr-262.	L0766: 1 and H0423: 1.		
HCFNB09	625697	9311	39 - 137	19063		L0748: 1 and H0423: 1.		
HCFNA77	874777	9312	2 - 163	19064	Thr-37 to Cys-43.	L0758: 1 and H0423: 1.		
HCFNA64	850391	9313	171 - 464	19065	Lys-13 to Gln-19, Ser-26 to Cys-40.	L0777: 1 and H0423: 1.		
HCFNA21	671021	9314	115 - 258	19066	Leu-7 to Leu-13, Pro-15 to Cys-28, Arg-41 to Lys-46.	H0423: 1		
HCFMZ90	922112	9315	273 - 881	19067	Asp-1 to Arg-8, Lys-15 to Asn-20, Thr-74 to Leu-80, Pro-84 to Asp-90.	AR061: 2, AR089: 1, L0749: 1, L0731: 1, L0757: 1 and H0423: 1.		
HCFMW71	920506	9316	195 - 407	19068	Pro-7 to Thr-12.	AR089: 10, AR061: 3, L0748: 3, L0749: 3, L0005: 1, L0777: 1, L0361: 1 and H0423: 1.		
HCFMU01	916695	9317	51 - 263	19069	Arg-37 to His-52.	L0766: 2 and H0423: 1.		
HCFMP46	463278	9318	54 - 245	19070	Asp-56 to Tyr-63.	L0756: 2, L0777: 2, L0749: 1.		

HC FMO47	881505	9319	125 - 322	19071	Pro-14 to Thr-23, Leu-42 to Ser-51.	1 and H0423: 1. H0423: 1	20q11.2	139190, 139190, 224100, 601002, 601002, 601146, 601146, 601146
HC FMI02	920349	9320	278 - 607	19072	Phe-18 to Gly-23, Met-79 to Asp-89.	L0809: 1 and H0423: 1.		
HC FMI37	955281	9321	137 - 658	19073	Pro-58 to Cys-69, Pro-71 to Glu-77, Tyr-102 to Ser-107.	AR089: 5, AR061: 1 H0423: 1		
HC FMIH46	719113	9322	109 - 321	19074		L0654: 1 and H0423: 1.		
HC FLY85	909182	9323	96 - 242	19075	Arg-16 to Arg-21, Trp-37 to Leu-48.	L0766: 2, L0747: 2 and H0423: 1.		
HC FLY53	727465	9324	71 - 265	19076		L0748: 3 and H0423: 1.		
HC FLY08	959620	9325	238 - 495	19077		L0599: 2, L0763: 1, L0805: 1, L0754: 1 and H0423: 1.		
HC FLYV30	692781	9326	253 - 462	19078	Glu-9 to Ala-14, Gln-24 to Gln-31, Arg-41 to Pro-48.	L0748: 3 and H0423: 1.		
HC FLT86	785560	9327	246 - 560	19079	Tyr-49 to Ala-55.	L0749: 1 and H0423: 1.		
HC FLM03	850403	9328	219 - 395	19080	Asn-12 to Tyr-23.	L0581: 1 and H0423: 1.		
HC FLL03	850406	9329	351 - 698	19081	Pro-39 to Gly-47, Asn-55 to Ser-64, Ser-76 to Gln-83.	L0527: 2, L0366: 1 and H0423: 1.		
HC FLK10	964792	9330	230 - 460	19082		L0745: 1, L0750: 1 and H0423: 1.		
HC FLB24	502414	9331	3 - 248	19083	Ser-43 to Ala-49, Gln-76 to Met-82.	H0423: 1		
HC FDD43	511210	9756	433 - 251	19508	Pro-25 to Ser-33.			
	779327	9332	3 - 173	19084	Glu-38 to Gly-43.	L0586: 1, L0756: 1 and H0422: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
HC FCV32	850413	9333	168 - 377	19085	Asp-22 to Gln-27, Pro-29 to Gly-36.	H0422: 1		

HCFCP77	772256	9334	87 - 194	19086			L0754: 1 and H0422: 1.		
HCFCM75	850435	9335	182 - 355	19087	Glu-1 to Lys-15.		L0740: 1 and H0422: 1.		
HCFCK25	494159	9336	239 - 3	19088	Lys-50 to Lys-64.		L0517: 1 and H0422: 1.		
	519091	9757	212 - 376	19509	Pro-38 to Leu-43, Ile-49 to Cys-55.				
HCFCG23	850426	9337	44 - 247	19089	Lys-46 to Lys-57.		H0422: 1		
HCFCF76	973808	9338	1 - 291	19090			H0422: 1		
HCFCCL10	964782	9339	277 - 507	19091	Arg-58 to Glu-66.		L0794: 2 and H0422: 1.		
HCFBX86	844884	9340	425 - 619	19092	Arg-23 to Thr-28.		H0422: 1		
	874103	9758	273 - 485	19510					
HCFBQ30	692787	9341	505 - 338	19093			L0748: 1, L0754: 1, L0745: 1 and H0422: 1.		
HCFBM75	766599	9342	137 - 316	19094			L0748: 1 and H0422: 1.		
HCFBM41	711631	9343	589 - 774	19095	Pro-31 to Lys-38.		L0748: 1 and H0422: 1.		
HCFBK28	706243	9344	4 - 171	19096			L0754: 1 and H0422: 1.		
HCGBK04	925601	9345	182 - 304	19097	Glu-1 to Trp-7, Gly-35 to His-41.		L0803: 3, L0777: 3, L0756: 2, L0780: 2, L0766: 1, L0774: 1, L0743: 1, L0757: 1, L0596: 1 and H0422: 1.		
HCFB151	670066	9346	27 - 518	19098			H0422: 1		
HCFA94	698647	9347	139 - 291	19099			L0794: 1, L0805: 1, L0439: 1, L0747: 1, L0779: 1; L0758: 1 and H0422: 1.		
HCFAZ12	970609	9348	3 - 188	19100	Asp-15 to Ser-22.		AR051: 13, AR054: 2, AR050: 1 H0422: 1		
HCFAZ07	849823	9349	222 - 1	19101	Ser-28 to Asn-40, Lys-68 to Lys-74.		L0588: 1 and H0422: 1.		
HCFAF08	959714	9350	117 - 275	19102	Leu-1 to Ala-7.		L0438: 2 and H0422: 1.		
HCFA38	576723	9351	2 - 166	19103	Arg-1 to Lys-7, Arg-28 to Arg-34.		H0422: 1		
HBYAB02	971578	9352	324 - 139	19104			S3016: 1, L0598: 1, L0763: 1 and L0665: 1.		
HBUAG44	716685	9353	3 - 110	19105	His-1 to Ser-6, Ser-21 to Val-28.		S0182: 1 and L0766: 1.		
HBUAC23	847698	9354	3 - 194	19106			S0182: 1 and L0748: 1.		

HBTAEB84	781946	9355	2 - 295	19107	Thr-41 to Phe-51, Leu-58 to Asn-63.	AR089: 1, AR061: 0 S0180: 1		
HBMXU73	953898	9356	507 - 635	19108	Tyr-7 to Thr-21.	L0770: 2, S0116: 1, L0775: 1 and L0439: 1.		
HBMXS23	675254	9357	216 - 455	19109	Gln-1 to Pro-7, Gln-43 to Ser-53, Lys-67 to Lys-74.	L0748: 4, L0605: 3, S0116: 1 and L0747: 1.		
HBMXL78	738763	9358	312 - 452	19110		S0116: 1 and L0731: 1.		
HBMXL41	711608	9359	2 - 118	19111		S0116: 1 and L0748: 1.		
HBMXJ70	757328	9360	291 - 398	19112		S0116: 1 and L0748: 1.		
HBMXG10	968055	9361	16 - 198	19113	Glu-15 to Trp-22, Cys-24 to Tyr-31, Ser-52 to Arg-57.	S0116: 1 and L0439: 1.		
HBMXF73	764551	9362	134 - 295	19114	Ser-37 to Met-44.	S0116: 1 and L0748: 1.		
HBMWX13	955208	9363	153 - 317	19115	Pro-5 to Pro-11.	S0116: 1 and L0665: 1.		
HBMWS75	767440	9364	108 - 350	19116	Met-1 to Gly-6, Lys-19 to Val-26.	S0116: 1 and L0748: 1.		
HBMWR62	754059	9365	177 - 395	19117		S0116: 1, L0754: 1 and L0589: 1.		
HBMWK06	936088	9366	142 - 249	19118	Lys-8 to Cys-13.	S0116: 1 and L0608: 1.		
HBMWI28	685443	9367	3 - 134	19119	Gly-7 to Arg-13.	L0748: 2 and S0116: 1.		
HBMWE35	706034	9368	184 - 360	19120	Ser-1 to Ser-10, Pro-39 to His-45.	L0745: 2 and S0116: 1.	15q22	102578, 109700, 151670, 154550, 601780
HBMVQ26	546495	9369	175 - 303	19121	Ala-8 to Glu-20.	S0116: 1		
HBMVO41	712565	9370	225 - 359	19122		S0116: 1 and L0439: 1.		
HBMVI33	702683	9371	75 - 242	19123		S0116: 1 and L0439: 1.		
HBMVG85	575418	9372	54 - 221	19124		L0439: 2 and S0116: 1.		
HBMVG18	666855	9373	37 - 159	19125		L0748: 4 and S0116: 1.		
HBMVE59	933208	9374	50 - 178	19126	Asn-4 to Ser-10.	L0748: 3 and S0116: 1.		
HBMVD05	932441	9375	175 - 357	19127	Met-21 to Lys-27, Asp-35 to Thr-40, Gln-42 to Tyr-47.	S0116: 1 and L0581: 1.		
HBMUW96	574517	9376	28 - 210	19128		S0116: 1		
HBMUW85	783416	9377	257 - 625	19129	Pro-11 to Gly-24.	S0116: 1, L0439: 1 and L0731: 1.		

HBMUW58	574513	9378	86 - 214	19130		S0116: 1	
HBMUN03	847787	9379	244 - 408	19131		S0116: 1 and L0758: 1.	
HBMUL31	456760	9380	249 - 503	19132	Ser-22 to Gln-34.	S0116: 1	
HBMUG59	739509	9381	55 - 249	19133	Arg-10 to Thr-16.	S0116: 1 and L0758: 1.	
HBMUG23	425961	9382	464 - 619	19134		S0116: 1 and L0766: 1.	
	675305	9759	155 - 337	19511			
	675308	9760	287 - 189	19512	Gln-16 to Lys-33.		
HBMUD91	789320	9383	262 - 603	19135	Asp-43 to His-71.	S0116: 1 and L0748: 1.	
HBMUB13	950984	9384	177 - 416	19136		S0116: 1 and L0740: 1.	
HBMUX71	760605	9385	122 - 331	19137	Ile-1 to Leu-7, Lys-33 to Ser-38, Gln-52 to Gly-66.	S0116: 1 and L0748: 1.	
HBMUTS23	676310	9386	44 - 298	19138	Thr-34 to Asp-39, Pro-75 to Ser-82.	S0116: 1, L0438: 1 and L0439: 1.	
HBMTR29	847785	9387	207 - 497	19139		L0599: 2, S0116: 1, L0763: 1 and L0748: 1.	
HBMSTM67	751907	9388	162 - 308	19140		S0116: 1 and L0754: 1.	
HBMTD69	754179	9389	199 - 324	19141		S0116: 1 and L0754: 1.	
HBMTB85	923730	9390	192 - 446	19142		S0116: 1 and L0750: 1.	
HBMTB34	706024	9391	178 - 474	19143	Leu-11 to Asn-19, Arg-39 to Trp-44, Gly-49 to Ala-55.	L0749: 2 and S0116: 1.	
HBMXS83	863883	9392	1 - 162	19144	Arg-1 to Ser-8.	S0116: 1 and L0766: 1.	
HBMDS02	920096	9393	219 - 380	19145	Tyr-12 to Tyr-17.	H0421: 1 and L0777: 1.	
HBMND16	661947	9394	265 - 495	19146		H0421: 1 and L0439: 1.	
HBMMD25	678127	9395	380 - 571	19147	Asn-14 to Ile-20, Cys-30 to Tyr-36.	H0421: 1, L0766: 1 and L0439: 1.	
HBMMDL27	683427	9396	280 - 501	19148	Cys-6 to Arg-26, Ser-28 to Arg-38, Phe-63 to Tyr-74.	H0421: 1 and L0748: 1.	
HBMDF52	727169	9397	365 - 547	19149	Lys-18 to Gly-23.	H0421: 1 and L0599: 1.	
HBMDD72	879813	9398	67 - 387	19150	Pro-2 to Gln-10.	H0421: 1	
HBMCD30	692733	9399	324 - 530	19151	Arg-1 to Gly-11, Ala-15 to Ser-22, Gln-40 to Gly-45.	H0421: 1 and L0602: 1.	



HBMCT24	677209	9400	133 - 285	19152			H0421: 1		
HBMCT09	625627	9401	456 - 626	19153	Phe-1 to Asn-11.		L0754: 2 and H0421: 1.		
HBMCS92	792736	9402	2 - 181	19154	Ala-1 to Lys-12.		H0421: 1 and L0748: 1.		
HBMCS55	731802	9403	76 - 219	19155			L0746: 2, H0421: 1 and L0777: 1.		
HBMCR25	678164	9404	275 - 613	19156			L0766: 3, H0421: 1 and L0741: 1.		
HBMCCQ95	888393	9405	181 - 372	19157			AR050: 133, AR054: 121, AR051: 115 H0421: 1		
HBMCG84	783043	9406	3 - 170	19158	Gln-21 to Val-26, Lys-42 to Ile-47.		H0421: 1 and L0748: 1.		
HBMCF20	646279	9407	106 - 495	19159			H0421: 1, L0384: 1 and L0592: 1.		
HBMCB55	731800	9408	1 - 228	19160	Pro-13 to Arg-21.		H0421: 1 and L0748: 1.		
HBMXB72	911168	9409	438 - 719	19161	Trp-10 to Ala-18, Arg-86 to Pro-93.		H0421: 1		
HBMXB64	746633	9410	91 - 249	19162			L0754: 2 and H0421: 1.		
HBMXB55	668981	9411	199 - 327	19163	Gln-19 to Ala-31.		H0421: 1, L0748: 1, L0439: 1 and L0596: 1.		
HBMBUS2	973805	9412	97 - 282	19164			H0421: 1 and L0794: 1.		
HBMBN85	783520	9413	18 - 212	19165	Arg-25 to Cys-32.		H0421: 1		
HBMBI49	723094	9414	316 - 456	19166	Thr-1 to Ser-9.		L0748: 2 and H0421: 1.		
HBMBF89	912789	9415	73 - 579	19167			H0421: 1, L0749: 1 and L0755: 1.		
HBMBF78	623421	9416	590 - 892	19168			H0421: 1		
HBMBE68	879588	9417	2 - 400	19169			H0421: 1 and L0776: 1.		
HBMBC66	859500	9418	87 - 353	19170	His-12 to Cys-21.		H0421: 1 and L0747: 1.		
HBMBS57	734915	9419	1 - 147	19171			H0421: 1		
HBMBS45	578817	9420	12 - 293	19172	Val-6 to Lys-18, Arg-31 to Arg-42, Arg-48 to Asn-55.		H0421: 1		
HBMAC54	930481	9421	191 - 433	19173			T0071: 1 and L0051: 1.		
HBMNC01	915970	9422	120 - 299	19174			H0318: 1 and L0766: 1.		
HBMNB52	726475	9423	160 - 357	19175	Pro-15 to Cys-23.		AR061: 4, AR089: 4		

									H0318: 1, L0766: 1 and L0748: 1.			
HBJMW95	797604	9424	497 - 802	19176				Thr-7 to Asp-21, Thr-42 to Ser-54.	L0758: 2 and H0318: 1.			
HBJMW03	921996	9425	149 - 310	19177				Ser-16 to Glu-22.	L0745: 2, H0318: 1, L0439: 1, L0746: 1 and L0779: 1.			
HBJMU53	727987	9426	88 - 285	19178				Arg-1 to Lys-6, Pro-17 to Phe-27.	H0318: 1 and L0439: 1.			
HBJMS40	710880	9427	101 - 235	19179					H0318: 1 and L0748: 1.			
HBJMR59	738615	9428	1 - 204	19180					H0318: 1 and L0748: 1.			
HBJML90	787320	9429	328 - 164	19181					H0318: 1, L0598: 1 and L0754: 1.			
HBJML80	775435	9430	165 - 305	19182				Ala-14 to Thr-19, Cys-29 to Trp-36.	H0318: 1 and L0750: 1.			
HBJME11	972939	9431	31 - 234	19183					H0318: 1			
HBJMC69	754875	9432	62 - 262	19184					H0318: 1 and L0748: 1.			
HBJMA80	777456	9433	42 - 215	19185					H0318: 1 and L0748: 1.			
HBJLX09	625319	9434	290 - 442	19186				Gln-4 to Lys-14.	H0318: 1 and L0605: 1.			
HBJLW74	765352	9435	88 - 354	19187				Ser-21 to Gly-27.	H0318: 1 and L0748: 1.			
HBJLU36	847851	9436	68 - 439	19188				Glu-19 to Ser-30.	H0318: 1 and L0748: 1.			
HBJLR37	849633	9437	2 - 328	19189				Asn-1 to His-11.	AR089: 3, AR061: 1 L0593: 2, L0594: 2, H0318: 1 and L0592: 1.			
HBJLR31	900883	9438	3 - 956	19190				His-7 to Gly-17, Gly-28 to Gln-33, Asp-51 to Ala-59, Glu-94 to Glu-101, Pro-118 to Val-123, Pro-143 to Gly-152, Gln-203 to Glu-211, Ser-213 to Thr-226, Ser-233 to Gln-239, Arg-274 to Ser-279, His-288 to Pro-294.	AR061: 4, AR089: 3, AR051: 2, AR050: 1, AR054: 1 H0318: 1			
HBJLF04	614915	9439	40 - 282	19191					H0318: 1 and L0591: 1.			
HBJLE70	847853	9440	586 - 834	19192				Asn-25 to Ser-34.	H0318: 1 and L0777: 1.			

HBJK177	772000	9441	98 - 337	19193	Gly-50 to Ser-57.	L0747: 2 and H0318: 1.		
HBJKG07	952843	9442	530 - 802	19194	Pro-12 to Met-21.	H0318: 1 and L0800: 1.		
HBJKF02	919446	9443	246 - 398	19195	Glu-1 to Gly-8, Asp-32 to Glu-40.	H0318: 1 and L0766: 1..		
HBJKD77	771975	9444	179 - 379	19196		H0318: 1		
HBJKD64	746398	9445	3 - 143	19197	Ser-40 to Glu-47.	H0318: 1		
HBJKD60	740171	9446	666 - 902	19198		H0318: 1 and L0754: 1.		
HBJKD50	724159	9447	1 - 204	19199	Arg-1 to Tyr-6.	H0318: 1		
HBJKD49	847857	9448	3 - 215	19200		H0318: 1		
HBJKD40	710931	9449	36 - 179	19201		H0318: 1		
HBJKA77	771982	9450	2 - 178	19202		H0318: 1 and L0777: 1.	18p11.31-p11.2	202200
HBJKA01	916077	9451	19 - 153	19203	Lys-37 to Lys-45.	H0318: 1 and L0646: 1.		
HBJJX53	835733	9452	79 - 393	19204		AR061: 6, AR089: 4 H0318: 1		
HBJJT12	894345	9453	3 - 596	19205	Phe-12 to Gln-21, Asp-27 to Thr-38, Pro-44 to Ser-52, Asn-54 to Ser-74, Ser-86 to Thr-92, Ala-117 to Phe-124, Gly-137 to Thr-142, Gly-182 to Ser-187.	AR061: 2, AR089: 1 L0749: 2 and H0318: 1.		
HBJJN02	919371	9454	306 - 548	19206	Thr-1 to Gly-9, Glu-29 to Ala-36, Pro-43 to Asn-50.	L0239: 1 and H0318: 1.		
HBJJL10	937583	9455	3 - 119	19207	Val-23 to Asn-30.	H0318: 1 and L0766: 1.		
HBJJE44	716409	9456	195 - 374	19208	Phe-5 to Trp-19, His-45 to Lys-53.	L0439: 2, L0780: 2 and H0318: 1.		
HBJJA32	699059	9457	381 - 683	19209	Asp-39 to Asn-46, Ser-61 to Gln-66.	L0744: 3, H0318: 1 and L0743: 1.		
HBJJA01	916078	9458	543 - 1055	19210	Asn-66 to Tyr-71, Gly-102 to Phe-109, Lys-120 to Asn-126.	L0766: 5, L0777: 3, L0779: 2, L0731: 2, H0318: 1 and L0803: 1.		
HBJJL42	597100	9459	280 - 411	19211		H0318: 1 and L0754: 1.		
HBJJL36	861363	9460	2 - 370	19212	Leu-62 to Ser-68,	H0318: 1, L0780: 1 and		

HBJH60	930448	9461	1 - 234	19213	Gly-117 to Gln-123. Pro-35 to Pro-42.	L0759: 1. AR089: 35, AR061: 8 H0318: 1, L0520: 1 and L0779: 1.		
HBJIF51	725081	9462	86 - 205	19214	Leu-18 to Leu-28, Leu-32 to Ala-60, Arg-69 to Gln-76.	H0318: 1 and L0748: 1. L0748: 4 and H0318: 1.		
HBJIF31	697753	9463	482 - 255	19215				
HBJIB69	754891	9464	123 - 251	19216		L0748: 2 and H0318: 1.		
HBJIA80	784267	9465	198 - 428	19217		H0318: 1, L0759: 1 and L0596: 1.		
HBJHX73	971377	9466	241 - 1059	19218	His-8 to Gly-18, Thr-52 to Tyr-63, Tyr-93 to Gly-105, Arg-114 to Gln-130, Asn-139 to Cys-147, Cys-149 to Asp-159, Arg-196 to Trp-202.	AR050: 428, AR054: 421, AR051: 340 H0318: 1		
HBJHW74	765380	9467	112 - 444	19219	Pro-4 to Leu-11, Gly-39 to Arg-53.	L0748: 2 and H0318: 1.		
HBJHU20	907575	9468	125 - 298	19220		L0589: 2 and H0318: 1.		
HBJHO44	882040	9469	171 - 347	19221	Ser-10 to Arg-15.	H0318: 1 and L0748: 1.		
HBJHI96	828996	9470	237 - 437	19222	Arg-1 to Ser-6, Thr-28 to Trp-38.	H0318: 1 and L0759: 1.	120215, 120215, 190198	
HBJHG02	919450	9471	202 - 321	19223	Gly-17 to Lys-27, Gln-30 to Val-35.	H0318: 1, L0766: 1 and L0608: 1.		
HBJGT03	923800	9472	35 - 226	19224	Ala-16 to Ser-22, Pro-31 to Leu-38, Ser-41 to Gly-48.	AR061: 5, AR089: 3 L0769: 2, H0318: 1 and L0787: 1.		
HBJFR45	722105	9473	309 - 518	19225	Gln-20 to Ser-34, Cys-53 to Asp-58.	H0318: 1, L0789: 1 and L0748: 1.		
HBJFQ08	959190	9474	139 - 339	19226		H0318: 1		
HBJFP52	728580	9475	165 - 362	19227	Asp-1 to Gly-6, Thr-38 to Arg-46.	L0439: 2 and H0318: 1.		
HBJFP08	959868	9476	191 - 388	19228	Arg-46 to Lys-51.	H0318: 1 and L0777: 1.		
HBJFK85	783432	9477	1 - 111	19229	Pro-20 to Ile-25.	L0439: 2 and H0318: 1.		

HBJF148	847899	9478	271 - 483	19230		AR051: 32, AR054: 28, AR050: 23 H0318: 1		
HBJF130	691056	9479	33 - 452	19231	Pro-1 to Trp-6, Glu-55 to Glu-64.	L0748: 2, L0740: 2 and H0318: 1.		
HBJFH60	740543	9480	242 - 388	19232	Ala-5 to Arg-14, Tyr-22 to His-28.	L0756: 4, L0600: 2, H0318: 1 and L0754: 1.		
HBJFH06	935587	9481	333 - 689	19233	Pro-8 to Ser-14, Asn-32 to Gly-38, Arg-75 to Ser-82, Ser-91 to Gln-96.	H0318: 1 and L0592: 1.		
HBJFD41	711591	9482	3 - 377	19234		L0608: 2, H0318: 1 and L0748: 1.		
HBJFD21	671205	9483	211 - 399	19235	Leu-3 to Gly-16.	L0766: 3, L0748: 3, H0318: 1, L0789: 1 and L0749: 1.		
HBJFC23	423885	9484	3 - 458	19236		AR061: 8, AR089: 4 L0439: 3 and H0318: 1.		
HBJFB10	968162	9485	44 - 259	19237		L0748: 2, H0318: 1 and L0749: 1.		
HBJEY89	787044	9486	104 - 322	19238	Asp-9 to Gly-26.	H0318: 1 and L0747: 1.		
HBJES09	487020	9487	66 - 272	19239	Asn-18 to His-23, Glu-38 to Glu-45.	H0318: 1		
	490958	9761	284 - 141	19513				
HBJEP70	757374	9488	283 - 471	19240	Glu-1 to Arg-8.	L0754: 2 and H0318: 1.		
HBJEN68	752251	9489	307 - 465	19241		L0748: 2 and H0318: 1.		
HBJEM45	722107	9490	49 - 153	19242		H0318: 1 and L0740: 1.		
HBJEL04	615515	9491	329 - 493	19243		L0748: 2 and H0318: 1.		
HBJEL06	935967	9492	99 - 200	19244		H0318: 1 and L0748: 1.		
HBJEE72	766187	9493	2 - 184	19245		L0439: 2 and H0318: 1.		
HBJED51	485130	9494	3 - 206	19246		H0318: 1		
HBJED05	935058	9495	273 - 473	19247	His-4 to Leu-15.	S0005: 1 and H0318: 1.		
HBJEC67	573809	9496	160 - 438	19248	Arg-2 to Leu-9, Arg-38 to Cys-54.	H0318: 1		
HBJEA73	573834	9497	1 - 81	19249	Gly-1 to His-18, Ala-22 to Trp-27.	H0318: 1		
HBJEA54	625943	9498	308 - 445	19250	Asn-35 to Arg-41.	H0318: 1		

HBJEA38	577103	9499	12 - 257	19251	Lys-1 to Glu-10.	L0749: 4 and H0318: 1.	
HBJEA37	839964	9500	1 - 108	19252	Lys-10 to Pro-20.	H0318: 1	
HBJEA13	419107	9501	56 - 268	19253		H0318: 1	
HBJDZ49	847928	9502	142 - 303	19254		L0758: 2, H0318: 1 and L0752: 1.	
HBJDR24	677407	9503	94 - 219	19255		H0318: 1 and L0748: 1.	
HBJDQ86	784654	9504	3 - 116	19256		H0318: 1 and L0756: 1.	
HBJDM70	757435	9505	313 - 399	19257	Leu-1 to Tyr-6.	H0318: 1 and L0754: 1.	
HBJDL24	678272	9506	180 - 440	19258	Glu-48 to Gly-53.	L0748: 3 and H0318: 1.	
HBJCV85	900955	9507	538 - 735	19259		AR054: 10, AR050: 8, AR051: 2	
						H0318: 1	
HBJCQ65	876430	9508	68 - 286	19260	Gly-35 to Ser-48.	H0318: 1, L0748: 1 and L0754: 1.	
HBJCJ82	779645	9509	315 - 479	19261		H0318: 1	
HBJCE07	954090	9510	1 - 132	19262	Glu-11 to Arg-19.	H0318: 1 and L0748: 1.	
HBJCB83	781411	9511	2 - 370	19263		H0318: 1 and L0748: 1.	
HBJBR04	847952	9512	115 - 309	19264		H0318: 1 and L0748: 1.	
HBJAP95	796659	9513	175 - 276	19265		H0318: 1 and L0752: 1.	
HBJAO55	732436	9514	40 - 171	19266	Thr-24 to Gly-37.	H0318: 1 and L0748: 1.	
HBJAJ49	723164	9515	320 - 439	19267		H0318: 1 and L0748: 1.	
HBJA150	724619	9516	1 - 345	19268	Gly-32 to Tyr-41, Leu-64 to Asp-71.	L0731: 4, H0318: 1, L0783: 1, L0809: 1 and L0757: 1.	
HBJA127	682941	9517	104 - 235	19269	Pro-29 to Pro-35.	H0318: 1	
HBJAE32	699695	9518	214 - 408	19270	Ile-3 to Leu-11, Lys-45 to Asp-50, Val-60 to Cys-65.	H0318: 1, L0664: 1, L0438: 1 and L0749: 1.	
HBJAB77	772422	9519	80 - 325	19271	Asn-17 to Trp-23, Ala-33 to Ile-47.	H0318: 1 and L0748: 1.	
HBJAB49	722195	9520	175 - 471	19272	Tyr-39 to Val-44.	L0766: 2, L0803: 2 and H0318: 1.	
HBJAB28	847966	9521	96 - 272	19273	Gly-38 to Lys-45.	H0318: 1 and L0485: 1.	
HBJAB15	660552	9522	31 - 390	19274	Glu-71 to Phe-79, Glu-98 to Ala-103, Ala-111 to Met-117.	H0318: 1 and L0759: 1.	

HBD4E47	720008	9523	364 - 486	19275	Phe-25 to Pro-34.	L0363: 1, L0766: 1, L0804: 1 and S0308: 1.		
HBDAD64	864344	9524	240 - 548	19276	Gln-8 to Trp-30, Arg-77 to Val-95.	L0754: 2 and S0308: 1.		
HBDAD16	661560	9525	260 - 388	19277	Tyr-2 to His-10.	L0809: 1, L0748: 1 and S0308: 1.		
HBCCO10	963157	9526	184 - 372	19278	Thr-30 to Glu-37, Gln-42 to Arg-49.	L0749: 2 and H0370: 1.		
HBCCO105	930956	9527	72 - 365	19279	Pro-5 to His-14, Ser-58 to Ala-66.	H0370: 1 and L0748: 1.		
HBCCE11	965869	9528	336 - 527	19280	Arg-9 to Cys-21, Pro-35 to Trp-41.	H0370: 1, L0766: 1 and L0803: 1.		
HBCCD06	938319	9529	1 - 408	19281	Arg-1 to Glu-6, Ala-10 to Ala-15, Ala-35 to Ser-43.	H0370: 1 and L0759: 1.		
HBCCB51	975256	9530	48 - 227	19282	Lys-46 to Gly-60.	H0370: 1		
HBCBR08	958151	9531	3 - 428	19283	Pro-18 to Gln-23, Pro-72 to Gln-81, Pro-87 to Ser-93, Asp-112 to Leu-119, Pro-121 to Ala-135.	H0370: 1 and L0766: 1.	16q22.1	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 192090, 245900, 245900, 276600, 600223
HBCBN51	952057	9532	358 - 738	19284	Arg-7 to Ser-19, Leu-97 to Ala-106.	AR089: 28, AR061: 8, L0143: 2, H0370: 1 and L0595: 1.		
HBCBN06	934110	9533	25 - 231	19285		H0370: 1 and L0748: 1.		
HBCBG04	926761	9534	213 - 596	19286	Lys-13 to Leu-18.	L0749: 2 and H0370: 1.		
HBCBF12	969578	9535	1 - 225	19287		H0370: 1, L0659: 1 and L0758: 1.		
HBCBE57	848322	9536	426 - 677	19288	Gly-51 to Gly-56, Pro-62 to Gly-74.	H0370: 1, L0748: 1, L0749: 1 and L0591: 1.		
HBCBB22	848325	9537	566 - 868	19289		H0370: 1, L0744: 1, L0779: 1, L0777: 1 and L0601: 1.		
HBCAW52	573919	9538	65 - 247	19290	Pro-7 to Pro-19, Ser-26 to Gly-34.	H0370: 1		

HBCAT10	968195	9539	84 - 218	19291	Tyr-9 to Gly-15, Lys-34 to Gln-41.	H0370: 1 and L0759: 1.		
HBCAS32	699489	9540	106 - 264	19292	Leu-1 to Gln-6, Pro-13 to His-18, Arg-35 to Val-43.	H0370: 1 and L0744: 1.		
HBCAQ85	783431	9541	2 - 307	19293	Gly-18 to Pro-24, Pro-26 to Gln-41.	L0439: 2 and H0370: 1.		
HBCAQ42	864356	9542	182 - 430	19294	Arg-8 to Asp-17.	H0370: 1 and L0365: 1.		
HASCG58	738423	9543	21 - 236	19295		L0748: 3, L0731: 2, H0274: 1 and L0754: 1.		
HASAW90	789112	9544	494 - 655	19296	Asn-27 to Ser-38.	L0740: 2, L0758: 2, H0004: 1 and L0439: 1.		
HASAR74	879377	9545	745 - 1068	19297		H0004: 1		
	883501	9762	251 - 643	19514				
HASAC10	968746	9546	3 - 287	19298	Arg-30 to Tyr-38, Met-71 to Arg-76, His-78 to Val-86, Glu-89 to Gly-95.	H0004: 1, L0639: 1, L0748: 1 and L0779: 1.		



- [044] The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.
- [045] The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the immune/hematopoietic associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.
- [046] The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.
- [047] Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on the

analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[048] Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of  $^{33}\text{P}$  dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly

expressed in immune/hematopoietic tissues, including normal and diseased immune/hematopoietic tissues (See Table 1A, column 7 and Table 4).

[049] Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[050] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[051] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

**TABLE 1B**

Clone ID NO:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAMHB21	11	961376	AL035530	19515	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HAMHB21	11	961376	AL035530	19516	1-577
HASAX16	12	573692	AL358796	19517	1-1065
HASAX16	12	573692	AL356513	19518	1-1281
HASAX16	12	573692	AL358796	19519	1-964
HASAX16	12	573692	AL356513	19520	1-540
HASAX16	12	573692	AL356513	19521	1-967
HASAY74	13	526312	AC006479	19522	1-1081
HASAY74	13	526312	AC006479	19523	1-1052
HASAY74	13	526312	AC006479	19524	1-117
HASAY89	14	958768	AC012580	19525	1-874
HASAY89	14	958768	AL133502	19526	1-874
HASAY89	14	958768	AC012580	19527	1-87
HASAY89	14	958768	AC012580	19528	1-1034 1426-2177
HASAY89	14	958768	AL133502	19529	1-1034 1426-2177
HASAY94	15	521835	AC022702	19530	1-220 2365-2620 2992-3310 3432-3987 4545-5235 5266-5325 5814-6468 6801-6965 7327-7763 7979-8172
HASAY94	15	521835	AC025796	19531	1-272
HASAY94	15	521835	AC024998	19532	1-272
HASAY94	15	521835	AL365438	19533	1-272
HASAY94	15	521835	AL390122	19534	1-272
HASAY94	15	521835	AL133216	19535	1-306 1488-1890 2450-2722 3082-3400 3526-4081 4304-5314
HASAY94	15	521835	AF198096	19536	1-308 1490-1896 2457-2728 2816-3407 3532-4087

					4313-5008 5584-6209
HASAY94	15	521835	AC024998	19537	1-592
HASAY94	15	521835	AC022702	19538	1-316
HASAY94	15	521835	AC025796	19539	1-592
HASAY94	15	521835	AL365438	19540	1-591
HASAY94	15	521835	AL390122	19541	1-592
HASAY94	15	521835	AL133216	19542	1-750
HASAY94	15	521835	AL133216	19543	1-138 734-1117 1716-2301 2496-3003 3142-3588 5476-6185 6679-7322 7428-7952 8163-8628 9071-9154 9380-9538 10422-10640 10673-10765 10780-10828 11018-11735 12735-13548 13651-14193 14663-14949 15056-15454 17688-18060 19315-19659
HASAY94	15	521835	AF198096	19544	1-2408
HASAY94	15	521835	AF198096	19545	1-373
HBCAL39	17	964871	AL023808	19546	1-606
HBCAL39	17	964871	AL354975	19547	1-609
HBCAL39	17	964871	AL355583	19548	1-609
HBCAL39	17	964871	AL117337	19549	1-607
HBCAL39	17	964871	AL161931	19550	1-607
HBCAL39	17	964871	AL022345	19551	1-83 1585-1635 1808-2378 5485-5902 6116-6277 8376-8779 8822-8972 9168-9821 11260-11538 13579-13698 17448-17520 17571-17848 18839-19282 19624-20151 20479-21084 21175-21448 32819-33061 34887-35180 35454-36250 37565-38021 38576-38855

					40356-40851 40884-41362 43851-44422 45111-46319 46743-49458 50723-51179 52126-52399 53142-53345 55328-55452 55462-56374 58253-58708
HBCAL39	17	964871	AF205588	19552	1-607
HBCAL39	17	964871	AL354975	19553	1-274
HBCAL39	17	964871	AL023808	19554	1-528
HBCAL39	17	964871	AL354975	19555	1-528
HBCAL39	17	964871	AL355583	19556	1-274
HBCAL39	17	964871	AL355583	19557	1-528
HBCAL39	17	964871	AL117337	19558	1-273
HBCAL39	17	964871	AL117337	19559	1-526
HBCAL39	17	964871	AL161931	19560	1-273
HBCAL39	17	964871	AL161931	19561	1-526
HBCAL39	17	964871	AL022345	19562	1-465
HBCAL39	17	964871	AF205588	19563	1-526
HBCAL39	17	964871	AF205588	19564	1-273
HBCAR79	19	573989	AC021215	19565	1-432
HBCAT17	21	503573	AC011448	19566	1-874
HBCAT17	21	503573	AC011448	19567	1-749
HBCAT63	22	573993	AL133243	19568	1-236
HBCAT63	22	573993	AL133243	19569	1-364
HBCAT63	22	573993	AL133243	19570	1-141
HBCBX12	24	861018	AC068475	19571	1-70 163-330 651-994 1105-1272 1372-1586 2253-2908 2995-3524 3711-4406 4418-4480 4581-5218 5621-5829 6007-6286
HBCBX12	24	861018	AC005954	19572	1-91 893-1009 1323-1695 1856-2422 3548-3650 3665-4010 4965-5170 5288-5397 6874-7000 7283-7430 7520-7600 7693-7860 8181-8524 8634-8807 8902-9116

					9783-10438 10525-11054 11241-11936 11948-12010 12111-12748 13154-13362 13540-13833 14748-14851 14928-15142 15543-15616 17091-17240 17351-18020 18331-18662 19524-19871 19999-20209 20570-20670 20861-21075 22489-22727 22961-23073 25307-25360 29573-29961 31051-31168
HBCBX12	24	861018	AC005954	19573	1-131
HBDAC79	26	935414	AP001785	19574	1-99 368-765 963-1141 1966-2078 2175-2597 3058-3200 3479-3686 4113-4631 4727-5095 5187-5344 5973-6073 6176-7972 8126-9308
HBDAC79	26	935414	AP001785	19575	1-224
HBDAC79	26	935414	AP001785	19576	1-428
HBDAD04	27	614849	AC055822	19577	1-970
HBDAD04	27	614849	AC055822	19578	1-424
HBDAD04	27	614849	AC055822	19579	1-281
HBDADF51	28	725481	AC041031	19580	1-709
HBDADF51	28	725481	AC012314	19581	1-859 928-1588 2180-2459 2554-2831 2984-3375 3783-4571 4867-5280 5713-7103
HBDADF51	28	725481	AC010492	19582	1-859 928-1588 2180-2459 2553-2830 2983-3374 3782-4570 4866-5279

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HBDASF1	28	725481	AC012314	19583	1-428
HBDASF1	28	725481	AC010492	19584	1-428
HBDASF61	29	864338	AC003963	19585	1-1249
HBDASF61	29	864338	AC003963	19586	1-582
HBDASF61	29	864338	AC003963	19587	1-106
HBJAB59	30	557972	AC073349	19588	1-596
HBJAB59	30	557972	AC073349	19589	1-107
HBJAB59	30	557972	AC073349	19590	1-608
HBJAC23	31	529753	AC008013	19591	1-37 103-661 1556-1903 1956-2579 2645-3136 3489-3537 4511-4666 5208-5598 5932-6495 6523-7338 8399-8495 9972-10388 10578-11240 11254-11411 11711-11799 12318-12567 13065-13804 13950-14573 15144-15404 16572-16810 17843-17999 18506-18812 18839-19318 20897-21290 21743-22162 22280-23030
HBJAC23	31	529753	AC006432	19592	1-151 694-1084 1418-1981 2009-2823 3503-3599 5071-5487 5677-6339 6355-6510 6809-6897 7416-7665 8157-8919 9065-9688 10259-10519 11692-11930 12638-12770 12941-13097 13610-13902 13943-14422 15994-16388 16841-17233 17379-18129
HBJAC23	31	529753	AC008013	19593	1-294



HBJAC23	31	529753	AC008013	19594	1-289 692-1099 1395-1823 2203-2837 3577-4809 4987-5449 5855-6157 6332-6552 6672-6725 6773-6994 7254-7358 7391-7785 7880-8597 10291-10690 10700-11175 11393-11530 11644-11749
HBJAC23	31	529753	AC006432	19595	1-290
HBJAG72	32	722723	AC022533	19596	1-479
HBJAG72	32	722723	AC068898	19597	1-479
HBJAG72	32	722723	AC022533	19598	1-140
HBJAG72	32	722723	AC068898	19599	1-140
HBJAJ75	34	953840	AL133163	19600	1-98 211-417 784-1004 1875-2071 2745-2913 3205-4214 4242-4552 4695-5574 6331-6850 7048-7631 7696-8408 8763-8873 8944-10131 10166-10740
HBJAJ75	34	953840	AL133163	19601	1-535
HBJAJ85	35	675904	AC002450	19602	1-117
HBJAJ85	35	675904	AC002450	19603	1-894
HBJAJ85	35	675904	AC002450	19604	1-501
HBJAV57	36	527998	AC004976	19605	1-140 348-434 2467-2856 3263-3461 4014-4463 4995-5067 6578-6638 7115-7236
HBJAV57	36	527998	AC004976	19606	1-273
HBJAY91	38	828026	AC067953	19607	1-341
HBJAY91	38	828026	AC067953	19608	1-180
HBJAY91	38	828026	AC067953	19609	1-364
HBJBM14	39	781398	AC022239	19610	1-407
HBJBM14	39	781398	AC022239	19611	1-463
HBJBM14	39	781398	AC022239	19612	1-663
HBJBU55	41	527112	AC024631	19613	1-580
HBJBU55	41	527112	AC024631	19614	1-103

HBJCD43	42	714390	AC013726	19615	1-76 903-1151 6010-6078 6161-6277 8977-9064 9732-9789 10007-10050 10340-10668 10685-10790 11749-11985 13579-13684 14185-14277 16029-16442 17116-17154
HBJCD43	42	714390	AC013726	19616	1-181 186-409
HBJCD43	42	714390	AC013726	19617	1-315
HBJCJ68	44	823468	AC022827	19618	1-223
HBJCJ68	44	823468	AC025429	19619	1-223
HBJCJ68	44	823468	AC022827	19620	1-255
HBJCJ68	44	823468	AC022827	19621	1-331
HBJCJ68	44	823468	AC025429	19622	1-331
HBJCJ68	44	823468	AC025429	19623	1-254
HBJDL73	48	531104	AC073041	19624	1-80 1609-2611 2813-3040 3929-4450 5011-5181 6243-6662 7347-7904
HBJDL73	48	531104	AC007401	19625	1-115 615-834 2847-2983 6954-6980 7541-7661 9579-9723 12147-12951 13592-13749 17487-18023 23251-23354 24659-24888 25992-26409 30147-30227 31757-32759 32961-33188 34077-34598 35159-35329 36391-36810 37495-39032 39741-42310 42460-42939 43671-44248 44277-44792 46043-46323 46392-47319
HBJDO70	50	752830	AC026134	19626	1-539
HBJDO70	50	752830	AC026134	19627	1-169

HBJDO70	50	752830	AC026134	19628	1-421
HBJDP32	51	573846	AC046176	19629	1-2934
HBJDP32	51	573846	AC046176	19630	1-357
HBJDP41	52	494836	AC015764	19631	1-90 1233-1633 2222-2584 3024-3326 3819-3944 4361-4505
HBJDP41	52	494836	AC011667	19632	1-138 1281-1681 2270-2632 3070-3372 3865-3990 4407-4644 8378-8745 8970-10143 10599-10746 11435-11585 11809-12440 12785-14150
HBJDP41	52	494836	AC012052	19633	1-401
HBJDP41	52	494836	AC012052	19634	1-363
HBJDT47	55	573728	AC016555	19635	1-330
HBJDT47	55	573728	AC010243	19636	1-330
HBJDT47	55	573728	AC010897	19637	1-330
HBJDW36	57	573847	AC023933	19638	1-460
HBJDW36	57	573847	AC023933	19639	1-231
HBJDW36	57	573847	AC023933	19640	1-311
HBJDX18	58	795732	AC007546	19641	1-103 1091-1218 1856-2074 2112-2398 2749-2937 4357-4400 5823-5913 6287-6977 7105-7443 8618-8818 9074-9299 10264-12381 12541-13026 13249-13333 13355-14023 14447-14788 14908-15500 15562-16612 17335-17834 18610-18726 21062-21312 21764-21927 24230-24297 25325-27507 27761-28166 28198-28323 29007-30428 31322-31453

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HBJDX18	58	795732	AC040979	19642	1-691 819-1158 2333-2533 2789-3014 3110-3211 3641-6097 6257-7059 7071-7662
HBJDX18	58	795732	AC007546	19643	1-258
HBJDX18	58	795732	AC040979	19644	1-284
HBJDX18	58	795732	AC007546	19645	1-143 204-922
HBJEA22	60	674872	AC018393	19646	1-382
HBJEA22	60	674872	AC023051	19647	1-382
HBJEA22	60	674872	AC018393	19648	1-333
HBJEA22	60	674872	AC023051	19649	1-333
HBJEA25	61	589249	AC016153	19650	1-76 255-413 485-549 1027-1356 1650-1744 1873-1996 2718-2802 2850-3420 3710-4290 4976-5599 5718-6368 6700-6837 7237-7349
HBJEA44	62	973376	AC069385	19651	1-515
HBJEA65	63	934994	AL031589	19652	1-1069
HBJEA65	63	934994	AL031589	19653	1-318
HBJED66	65	787251	AC023043	19654	1-400
HBJED66	65	787251	AP001321	19655	1-400
HBJED66	65	787251	AP001155	19656	1-400
HBJED66	65	787251	AP001158	19657	1-400
HBJED66	65	787251	AP001321	19658	1-112
HBJED66	65	787251	AP001155	19659	1-451 491-1227 2776-3139 3477-3947 4551-4788
HBJED66	65	787251	AP001321	19660	1-451 491-1227 2776-3139 3477-3947 4550-4787
HBJED66	65	787251	AP001158	19661	1-450 490-1226 2775-3138 3476-3946 4549-4786
HBJED66	65	787251	AP001155	19662	1-112
HBJED66	65	787251	AP001158	19663	1-112
HBJEE29	66	888625	AL035652	19664	1-1667

HBJEE29	66	888625	AL035652	19665	1-530
HBJEE29	66	888625	AL035652	19666	1-242
HBJEI42	69	669495	AC073917	19667	1-645
HBJEI42	69	669495	AC010191	19668	1-645
HBJEI42	69	669495	AC073532	19669	1-645
HBJEI42	69	669495	AC073917	19670	1-167
HBJEI42	69	669495	AC073917	19671	1-383
HBJEI42	69	669495	AC010191	19672	1-167
HBJEI42	69	669495	AC073532	19673	1-383
HBJEI42	69	669495	AC010191	19674	1-382
HBJEI42	69	669495	AC073532	19675	1-111
HBJEJ21	70	671201	AC008449	19676	1-302
HBJEJ21	70	671201	AC008648	19677	1-302
HBJEJ21	70	671201	AC008449	19678	1-293
HBJEJ21	70	671201	AC008449	19679	1-331
HBJEJ21	70	671201	AC008648	19680	1-327
HBJEJ21	70	671201	AC008648	19681	1-291
HBJEJ29	71	693490	AC002126	19682	1-432
HBJEJ29	71	693490	AC002126	19683	1-415
HBJEJ83	72	847920	AC009970	19684	1-687
HBJEJ83	72	847920	AC040935	19685	1-687
HBJEJ83	72	847920	AC009970	19686	1-377
HBJEJ83	72	847920	AC009970	19687	1-380
HBJEJ83	72	847920	AC040935	19688	1-377
HBJEJ83	72	847920	AC040935	19689	1-380
HBJEO29	73	693491	AC011276	19690	1-646
HBJEO29	73	693491	AC009557	19691	1-644
HBJEO29	73	693491	AC011276	19692	1-578
HBJEO29	73	693491	AC009557	19693	1-324
HBJEO29	73	693491	AC009557	19694	1-441
HBJEP15	74	847843	AC005580	19695	1-394
HBJEP73	75	764573	AC073066	19696	1-314
HBJER19	76	953804	AC009118	19697	1-374
HBJES44	77	715846	AC034199	19698	1-723
HBJES44	77	715846	AC034199	19699	1-540
					851-1144
					1164-1646
					1871-3258
					3619-4160
					4216-4290
					4715-5577
					7379-7476
					8023-8700
					8786-8852
					8970-9054
					9100-9487
					10513-10885
					12867-12891
					13114-13224
					14721-14752
					16197-16933
					17094-17635
					17691-17821
					18749-19392
					20883-21548
					22494-22739

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HBJES44	77	715846	AC034199	19700	1-3850
HBJET94	79	794343	AL133485	19701	1-272
HBJET94	79	794343	AL133485	19702	1-174
HBJET94	79	794343	AL133485	19703	1-422
HBJEW15	80	507534	AC010618	19704	1-416 2674-2762
HBJEW15	80	507534	AC010618	19705	1-134
HBJEW15	80	507534	AC010618	19706	1-1447
HBJEZ09	81	573781	AC026110	19707	1-304
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